VACIONES UNIDAS

Rev. 1

PROJECT DATA BANK

FOR THE OFFICE
OF ECONOMIC
DEVELOPMENT

BELMOPAN RF7 17F

PART I

BACKGROUND AND TERMS OF REFERENCE

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JOINT ECLAC/ILPES PLANNING UNIT FOR THE CARIBBEAN REPORT OF MISSION TO THE OFFICE OF ECONOMIC DEVELOPMENT FOR IMPLEMENTING A PROJECT DATA BANK WITHIN THE TERMS OF REFERENCE OF THE PROJECT BZE/84/001: SOCIO-ECONOMIC DEVELOPMENT PLANNING, AND UNDER THE AUSPICES OF UNDP/SAN SALVADOR

#### I. Identification of the mission

The Mission was carried out in Belmopan, Belize from 16-21 February, 1987 at the Office for Economic Development. Its nature was to commence activities that would culminate in the establishment of a computerized Project Data Bank.

#### II. Immediate objective

The immediate objective was to acquaint the staff of the Office of Economic Development with the capabilities of the microcomputer, discuss the data elements needed in a database on project information, and introduce the software that would be appropriate to the accomplishment of the tasks of archiving, editing, retrieving and searching of the database.

#### III. Development of the mission

The Mission commenced on 16 February at the Office of Economic Development. I met with Mrs. Yvonne Hyde and discussed the mission in the context of the project activities. My next activity was to give an introduction to microcomputers to the staff. This I did by tracing the short history of microelectronics and later discussing some of the capabilities of the microcomputers. A subsequent session involved the staff members who are more directly concerned with the project monitoring exercises. At this session we discussed data banking in general and the needs of the Office in the area of data capture on proposed and on-going projects in particular. The need to have readily available data that would assist in the assessment of project performance and saturation of activity in any given area was readily appreciated. In the light of the discussions, we designed a file structure that would contain the required information. In order to increase the probability of complete and universal understanding of what was to be recorded, a set of definitions and explanatory notes on each of the items was prepared.

One of the tasks was to choose the software that would be appropriate for the job. We selected dBaseIII PLUS for its power and convertibility to spreadsheet format that would be able to afford easier analysis and graphic presentation in parts. The choice of software was also influenced by the desirability of incorporating tables generated by the database package into text as prepared on a word processing package.

The officers themselves, under my supervision, entered data into the file structure until a very small but useful exercise file was constructed. I then demonstrated what we had been discussing earlier in the week through several listings of selected data, searches, sorts, indexings and presentations of hard copy. We continued to look critically at the file, adding data elements in the light of the discussions, until we had identified the data set that would be able to yield the required information upon query.

As the file structure was evolving, it became clear that the data had not previously been captured so as to yield the information in a manner that would allow easy transfer to machine-readable form. I therefore designed a data capture form which was accepted and which will be used to capture the data for subsequent transfer to the data base. I believe that the data gathering exercise using this form has already begun and that in a relatively short time the office will be ready to input data to the computer.

#### IV. Names of persons consulted in Belize

Mrs. Yvonne Hyde - Chief. Office of Economic Development

Mr. Clarence Borland - Officer, Office of Economic Development --

Mr. Orlando Puga - Officer, Office of Economic Development

Mr. John Briggs - Officer, Office of Economic Development

Mr. Leopold Perriot - Chief, Computer Centre

#### V. Follow-up action and recommendations to ECLAC/ILPES

#### a. On-going tasks

During the course of the exposition of the data management techniques, it became desirable for me to prepare a manual of procedures that would ensure the ability of the officers to work with the data in the absence of an advisor. I have begun this with a view to producing a simple and clear set of instructions, and should complete it in the early part of March. The manual is output-oriented and makes use of other software in addition to dBASEIII PLUS.

#### b. Expected tasks

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More tutoring is needed in this area. This will be done in a subsequent phase of the project when the second week of training is held. It was previously agreed that the first mission could have been as long as three weeks in duration, but it was thought better to break after the first week, allow the data collection exercise to be done, and derive greater benefit from a second round of training a few weeks later. The estimate of the Office of Economic Development for completion of the data-gathering exercise was in the vicinity of one month. I would make myself available for the second part of the training which will involve the construction and searching of the data

Lancelot A. Busby Economic Affairs Officer (Statistics)

## REPORT ON WORK DONE IN MISSION OF 4-8 May 1987

#### PROJECT DATA BANK

On this leg of the mission we looked at the data collected on the form as designed in the first mission in February, and we made two alterations to the manual prepared. These were:

- We agreed to use the modified <1> International Standard Industrial Classification of all economic activities (ISIC) minus the Government sector classification to activity within which the project activity falls. A copy of this classification will be appended to the manual which was prepared by me, and which should still be considered to be a draft. The sector and subsector fields of the database will make use of this classification.
- We also agreed that the executing agency should be more defined to the Ministry with responsibility for the implementing of the project. The draft manual already has a list of the Ministries.

In one discussion of the reports that need to be generated, we identified two. They are

(i) A dump of the entire contents of the database; and

;^

(ii) A selective printing of information from the database for a monthly reporting.

We agreed that the monthly report would contain the following information:

Project Name Project Number Sector Subsector Executing Agency Financing Agency Objective Activities Total Cost Expenditure to Date Duration Starting Date Ending Date Status Qualifying Comments Reasons Last Update

Modified to suit the needs and circumstances of Belize.

In order to ensure that the staff of the Office of Economic Development would be able to operate the database, we spent some time manipulating the database via searches and listings, edits and browsings. We created the monthly report format and printed it as well as a dump of the database's contents, using the SIDEWAYS utility.

In printing the reports we had to use the translate utility of LOTUS 1-2-3. In order to feel certain that there was an appreciation of the capability of LOTUS 1-2-3, we spent some time looking at the rudiments of spreadsheet creation and manipulation, and performed analysis of some of the data elements in a manner that would effectively describe the information. We utilized the graphics capability to produce pie, line and bar charts. I made it clear that those sessions were merely a "quick fix", but that there was need for LOTUS 1-2-3 to be studied and practiced until proficiency in its use was attained. It is equally clear that practice with dBASE III is needed to ensure the acquisition of dexterity in the use of the software.

The Chief of the Computer Centre, Mr. Perriott, has begun to customize some screens that should make it easier to operate the database. He should find the time to finish these screens, and attempt a report generating procedure that would yield the same information that we have been able to yield through the use of LOTUS 1-2-3. I wish to state that this is not absolutely necessary, but it would make the database a bit more friendly.

I believe that from this stage the quality of the output would depend on the accuracy with which the data entry is made. The manual should be studied and used. Practice with the software will yield perhaps faster ways of doing things. Discovery should be encouraged and new routines, if found, should be discussed with the Chief of the Computer Centre before being implemented.

> Lancelot A. Busby Economic Affairs Officer (Statistics)

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PART II

METHODOLOGY FOR DATA ENTRY AND

QUERY OF THE PROJECT DATABASE FILE

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# PROJECT DATA BANK for the Office of Economic Development Belmopan, BELIZE

Manual for the design and data entry into a project database

#### 1. What is a Database?

A database is essentially a set of information stored in one geographical location, in such a manner that it can be drawn on to answer queries or to inform decision-making. In order to maximize the utility of the database, there must be some order in the manner in which the entries are made. Databases are usually specific to some defined area of interest, and so lend themselves to structuring in some uniform manner, and in a manner that would facilitate grouping or disaggregating according to some hierarchical design. The database may contain character or numerical type data.

A computerized database differs from the stock of knowledge stored in the human brain in that it must be formally structured to be useful. This formal structuring becomes possible only after a clear idea of the purpose of the construction of the database is had. There is an old adage that "things are not always as they seem". Differences in interpretation are all too common. The meaning of each question or data bit in a database must be unequivocal to all persons. It is highly desirable that a manual that explains all the data requirements be prepared.

For any one item, there may be several bits of information that may be used to qualify it. Each of these bits should be able to be retrieved or sorted. Each bit must therefore be stored in a separate area or "Field". The set of fields that describes the variable or item being stored is called a record, and the set of records makes up the file or database.

One would note the use of the terms "Database" and "Data Bank". There is a very slight difference between the two, and that difference is use. The archived data are referred to as database. Its productive use makes it a data bank. Another example would be that of a large sum of money merely being stored in one location. That would be a "money base". If that money were being used in transactions, a more apt description would be a "bank".

In the present case, the problem or job at hand is to construct a database of on-going and proposed projects at various stages of implementation in Belize. The constructors of the database must decide what are the elements of information that must be tapped, and organize them in such a manner as to provide access to each element very directly. There are several major elements of information about project activity that must be stored in any database that addresses itself to the capture of such data. These elements are referred to and stored in "Fields".

2. Guidelines and suggestions for the establishment of fields

The project name identifier:

This field should contain the name of the project. It would be the field or information bit to which the other bits of information are linked. The formal name of the project appears on the project document.

The project number:

This is the number assigned by the funding agency.

Sector/subsector:

This refers to the branch of economic activity excluding the government and household sectors, that is the area directly affected by the project. Thus, although Government might be involved in construction through the Ministry of Works, any project being done by that Ministry involving construction will be put in the Construction sector. Apart from the clarification, the sector classification utilized is the Belize Industrial Classification which broadly follows the International Standard Industrial Classification of all economic activities (ISIC). Appended at Annex I is a listing of the Classification.

The executing agency is the agency responsible for the logistics involved in the management of the project. This agency must see to the provision of resources and logistical support necessary to the success of the project. For purposes of this exercise, record here the Ministry responsible for the project.

The financing agency, as the description implies, is the agency that provides the funds for the project.

Type of funding:

This would distinguish the funding as being a loan, a grant or partly a loan and a grant.

The development objective:

This should state what is the goal, the achievement of which would be the result of the project activities. It could be, for instance, the development of cultural and managerial capabilities among small farmers. If the project is aimed at achieving more than one development objective, the order of importance of these development objectives, in relation to the project, should be indicated.

The activities (or immediate objectives):

These outline the various actions that must be taken to bring about the achievement of the development objective. The designer should identify those activities which will be carried out by the project staff in order to produce the envisaged outputs. Each activity and its sub-activity should be identified.

#### The expected results:

These are also referred to an "outputs". The designer must identify and describe the outputs which must be produced by the project through its activities in order to achieve the immediate objectives. Technical or other reports to be produced should be identified here and not under the section that deals with the status of the project. The description should specify clearly the type and scope of the outputs expected.

#### Actual results:

These refer to a listing of the elements under the heading "the expected results" that have in fact taken place at the time of writing. This, compared with the development objective and the immediate objectives, can be used to measure the success or failure of the project.

#### Beneficiaries:

This relates to the group of persons or section of the community that will benefit directly from the project activities.

#### Total cost:

This would include the amount provided by the funding agency plus the national input in cash, plus a valuation of the national input in kind. The total cost figure should be in Belize dollars.

#### Agency input:

This should be the Belize dollar value of funding agency contribution.

#### Local input:

This should be the Government inputs in cash and in kind, in local currency.

#### Donor currency:

This refers to the currency in which the donor component is being given.

#### Rate of exchange:

This is needed to record the rate of exchange. It should be expressed in terms of the number of foreign monetary units required to purchase one unit of local currency at the date of signing of project document.

#### Duration of project:

10 m 10 m Enter here the number of months that will elapse before the project comes to an end.

Starting date:

Enter the estimated (in cases where the project has not yet begun) or actual starting date in mm/dd/yy format.

Ending date:

Enter here the estimated date of completion of the project, in mm/dd/yy format.

Status of project:

This item seeks to report on the actual situation of the project. Progress can be classified in any of the following expressions.

Idea
Prefeasibility
Feasibility
Pre-investment
Investment
Operational
Complete

#### Comments:

This is a statement in coded language, of progress on projects that actually began. This field would portray the following information in a field code named QUALIFY.

Decile description of progress Completed before schedule Completed on schedule Completed after schedule Abandoned Extended Incomplete

#### Reasons:

This column seeks to explain aberracions from schedules. It would explain the strike (say) that caused a set-back in the achievment of the objective. Economy in the use of words is illustrated by the following examples that cover most of the reporting that would be needed for the item.

Pending approval
Insufficient funds
Postponed
No funds
Being revised

It must be remembered that what is needed from the database is a succinct indication of the main features of the projects. Words must therefore be minimized in the interest of file space and ease of understanding.

Authority:

This refers to House Resolution. Put House Resolution number-here.

Data of House Resolution:

Enter the date of the House Resolution in mm/dd/yy format.

File reference:

Each project is ultimately connected to a file. Enter the number of that file.

Date of last update:

Enter the date when the latest updating of the information on the particular record was made. For example, if on 18 February you went into the file and changed data for a particular project, before saving the data, you must change the date to read the 18 February 1987. This will be 02/18/87.

#### THE USE OF CODED LANGUAGE

What follows is a suggestion for the use of coded names to describe fields to be included in the record.

Natural language code	Coded name
Project name	PRONAME
Project numbner	PRONUM
Sector	SECTOR
Subsector	SUBSECTOR
Executing agency	EXECAGEN
Financing agency	FINAGEN
Type of funding	FUNDTYPE
Development objective	OBJECTIVE
Activities	ACTIVITIES
Expected results	EXPECTRES
Actual results	ACTUALRES
Beneficiaries	BENEFITWHO
Total cost	TOTALCOST
Agency input	AGINPUT
Local input	LOCINPUT
Donor currency	FOREIGNS
Rate of exchange ,	XRATE
Duration of project	DURATION
Starting date	START
Ending date	FINISH
Status of project	STATUS
Comments on status	QUALIFY
Reasons	REASONS
Authority	AUTHRTY
Date of House Resolution	AUTHRDATE
File reference	FILEREF
Date of latest update	LASTUPDATE

The following is a list of descriptors and codes that describe the status (STATUS) of the project.

Descriptors	Codes
Idea Pre-feasibility Feasibility Pre-investment Investment Operational Complete	Idea Prefeas Feas Pre-inv Invest Operational Complete
	· · · · · · · · · · · · · · · · · · ·

The following is a list of descriptors and codes that describe the comments (QUALIFY) field.

Descriptors	Codes
Decile description of progress Completed before schedule Completed on schedule Completed after schedule Abandoned Extended Incomplete	<10%,<100%, 100% CBS COS CAS Aband Extnd Incompl

#### Ministry codes:

The various Ministry names should be abbreviated in order to save column space. The following represents the abbreviations suggested:

Codes	Ministry
M/FIN DEF	- Ministry of Finance and Defence
M/HOAFF	<ul> <li>Ministry of Home Affairs</li> </ul>
M/FOR ECDEV	- Ministry of Foreign Affairs and Economic Development
M/NATRES	- Ministry of Natural Resources
M/AGRIC	<ul> <li>Ministry of Agriculture</li> </ul>
M/HEALTH	<ul> <li>Ministry of Health</li> </ul>
M/WORKS HOUS	<ul> <li>Ministry of Works and Housing</li> </ul>
M/EDUC CU YOSP	<ul> <li>Ministry of Education, Culture,</li> <li>Youth and Sports</li> </ul>
M/COMM IND TO	<ul> <li>Ministry of Commerce, Industry and Tourism</li> </ul>
M/ELEC CO TR	<ul> <li>Ministry of Electricity, Communication and Transport</li> </ul>
M/LAB SOSERV	- Ministry of Labour and Social Services

File Structure:

÷	Field name	Type	Width	DEC	
!	PRONAME	Character	50	بنده منظ النام	
	PRONUM	Character	12		
<del>*</del> `	SECTOR	Character	20		
	SUBSECTOR	Character	20 .		
	EXECAGEN	Character .	12		
·		Character	15	, **	
	FINAGEN				
	FUNDTYPE	Character	12		
	OBJECTIVE	Character	75		1
	ACTIVITIES	Character	75 75		
	EXPECTRES	Character	75		
	ACTUALRES	Character	75		
	BENEFITWHO	Character	50	,	
	TOTALCOST	Numeric	10	0	
	: AGINPUT	Numeric	10	0	
	LOCINPUT	Numeric	10	0	
	FOREIGN\$	Character	10		
	XRATE	Numeric	10	4	
	START	, Date	8 8		
	FINISH	Date	8 , ,		
	STATUS	Character	12		
	QUALIFY	Character	12		
	REASONS	Character	30		
	AUTHRTY	Character	8		
	AUTHRDATE	Date	8		
	FILEREF	Character	12		
	LASTUPDATE	Date	8		

Activities (Company) (Comp

#### PROJECT DATA CAPTURE FORM

PROJECT NAME:	
PROJECT NUMBER:	,
SECTOR:	
•	
FINANCING AGENCY:	
TYPE OF FUNDING: [ ] Loan	[ ] [ ] Grant Loan/Grant
DEVELOPMENT OBJECTIVE:	
ACTIVITIES:	
EXPECTED RESULTS:	
ACTUAL RESULTS:	
BENEFICIARY:	
TOTAL COST: (Bze Dollars)	AGENCY INPUT: (Bze Dollars)
VALUATION OF LOCAL INPUT: (Cash and in-kind contributions)	
EXCHANGE RATE IN TIME OF AGREEMENT	· (Days for Comments)
DURATION OF PROJECT: MON	(Foreign \$ per \$Bze) THS
STARTING DATE: (mm/dd/yy)	FINISHING DATE:(mm/dd/yy)
	feas, aband, etc.):
QUALIFYING COMMENTS:	
	DATE OF RES.:
FILE REF. NUMBER:	
THIS FORM COMPLETED BY:	
SIGNATURE:	(Name in block capitals)
Date:	1

## METHODOLOGY FOR DATA ENTRY AND QUERY OF THE PROJECT DATABASE FILE

- 1. Turn on computer. Get into dBASE III PLUS.
- 2. Press (Escape) key. This brings up the dot promot. You will see a dot.
- 3. Type CREATE PROJDAT. (Projdat is the name of our database file).
- 4. The screen will be ready for you to structure your file. Enter the various field names (as appear higher up in this document). e.g. PRONAME. Hit the (enter) key. The cursor goes to the second column. If you want to store words and symbols, type C. The cursor runs on to the third column. This asks how many characters would you assign to the column. Enter the number as per the field design. (Check the Field design for this number).
  - \* File Structure appears on pg. 8.
- 5. The cursor goes to a new line. Enter the second field name (PRONUM). Follow the steps as at (4) above.
- 6. Continue to enter your field names. If the information to be stored is numeric, type N in the second column. The word "Numeric" will appear. Type in the maximum number of digits you wish to store in this column, and enter the number of decimal places, if any, you wish. If you wish none, hit (Enter) and move on to the next field. If the next field is a date, write the Field name (e.g. START) and press (Enter). When the cursor goes to the second column, type D (D = date). Immediately, eight (8) digits will be allocated to that field.
- 7. When you have finished entering fields, type (Enter) or hit the the (Retern) key. A message appears, asking you to hit the (Return) key to confirm that you wish to end the file structure. Hit the (Enter) key.
- 8. A message asks "Input data records now? (Y/N). If you say no (N) the computer will save the file structure and return to the dot prompt. If at this stage, you make a typographical error in the command being written in, this message appears:

\*\*\* Unrecognized command verb

and will probably add:

Do you want some help (Y/N).

<To get help on a specific command, type HELP followed by the command you need help with>.

e.g. HELP DISPLAY (Enter)>.

Hit Y and begin to enter data.

- 9. At the end of one record, another screen will pop up at you. Fill it with data, like above.
- 10. If you wish to stop entering data, when the screen for a new record comes up, hit (Enter).

The screen clears and the dot prompt appears. Your data have been saved in your file. To verify this, type LIST and hit (Enter). The dot prompt returns after the listing.

11. Type QUIT to quit dBASE.

#### TO ADD MORE RECORDS TO THE DATABASE

- 1. Get into dBASE and hit (Escape). You will see the dot prompt.
- 2. Type USE PROJDAT and (Enter). Another dot prompt appears.
- 3. Type APPEND and hit (Enter). The screen for a new record appears. You may now enter your next project data record. When you have finished your data entry, hit (Enter). This returns you to the dot prompt.

#### TO BROWSE THROUGH THE FILE

You may want to browse through the file.

- 1. Type browse (Enter). The file appears and you can use the up arrow (^) to browse from last to first record in the file. The down arrow will help you to browse down. The (Control) (right -> arrow) will help you to browse to the right and the (Control) (left <- arrow) will allow you to browse to the left.
- 2. When you have finished browsing, press (Control) (End). You are now back to your dot prompt.

#### TO SEARCH THE DATABASE

By now you are either in a file and at a dot command, or you can get there. At the dot prompt, you wish to search for a particular record with certain characteristics in common. Let us assume we want to look only at the projects in the Agriculture sector.

You can search by using either of two commands:

LIST FOR and LOCATE

#### Searching with LIST FOR:

1. At the dot prompt, type, LIST FOR (Fieldname) = "Agriculture" (Enter). In our example, this would be,

LIST FOR SECTOR = "Agriculture " (Enter).

All the records with Agriculture being the sector of project activity will appear. Remember always to leave a space after Agriculture, before putting the final inverted commas.

You may wish to search for all the records that DO NOT involve the Agriculture sector. Type at the dot prompt,

LIST FOR SECTOR # "Agriculture " (Enter).

This will yield all the records of Projects in sectors other than the Agriculture sector.  $\Box$ 

\*You can search on the basis of any Field name.

You may use LIST FOR to list selectively. Suppose you only want PRONAME, PRONUM and START in Agriculture projects only, you can type

LIST FOR SECTOR = "Agriculture " PRONAME, PRONUM, START (Enter).

You can vary the ordering of the Fields with this command. For example:

LIST FOR SECTOR = "Agriculture " PRONUM, START, PRONAME (Enter), and see the result.

Searching with LOCATE:

At the dot prompt, type,

LOCATE FOR (Fieldname) = "Agriculture " (Enter).

The screen will say

<Record = 1 (say)>

Туре

DISPLAY (Enter)

The screen will yield

Record # Field Field .... Field

We can type

CONTINUE (Enter) to continue the display, until there are no more records to be displayed in the search.

Let us assume that we want to look at all the projects that would be of benefit to Managers, regardless of what the nature of the project is and regardless of what sector the project addresses.

We can type

LOCATE FOR "MANAGERS " \$BENEFITWHO (Enter).

Then type

DISPLAY (Enter).

We can combine search conditions as much as we wish. Supposing we wanted to locate records of projects that EITHER benefited Managers OR were executed by CDB, we would type:

LIST FOR "Managers " \$BENEFITWHO. OR. "CDB " \$EXECAGEN (Enter).

We will get a listing of all the projects executed by CDB, as well as all projects whose beneficiaries include Managers.

Sorting the DATABASE:

There are two commands to rearrange the data stored. They are:

SORT and INDEX

Sorting with SORT:

When we use the SORT command to sort files, dBASE requires us to create a new database to store the sorted records. Once the sorting is done, we can copy the sorted database back into the original file and overwrite it.

1. Open a file from the dot prompt by typing,

USE PROJDAT (Enter). This loads PROJDAT.

In order to sort on the basis of SECTOR, type

SORT ON SECTOR TO TEMP (Enter). TEMP is a temporary file.

The screen will show

.USE TEMP LIST (Enter)

(Sorted file appears).

Туре

.COPY TO PROJDAT (Original file) (Enter).

The screen will say:

<PROJDAT.DBF already exists, overwrite it (Y/N>

Answer

Y. The file is overwritten with the sorted file.

\*Sorting with sort requires large amounts of disk space to play with, since at least twice the size of the original database must be available.

A sort can be performed on any field.

Sorting with INDEX:

The INDEX command is faster and more efficient in its sorting capabilities. The command grammar is similar to SORT, but the approach is different. The following is an example, using a file called INDEXFIL to do the indexing. The sort will arrange executing agencies in alphabetical order.

Type:

INDEX ON EXECAGEN TO INDEXFIL (Enter). LIST (Enter).

<Indexed file appears>. The sort is made, but the chronological order
of entry is indicated by place numbering. The place numbers need not
be in sequence. The file created, (INDEXFIL), is an index file
(INDEXFIL.NDX). The index file contains only last names. The original
file maintains its original record numbering, but through the
intervention of the Index file, shows the sort.

The INDEX command allows you to add new records and change information on the database, then view the records in sorted order immediately, without re-sorting or going through the INDEX on procedure again. Optionally you can use the database with the existing index files, then use the REINDEX command to re-create the index files. The following routine illustrates:

.USE PROJDAT INDEX INDEXFIL, EXECAGEN (Enter). REINDEX (Enter).

The REINDEX command restores or recreates the index file.

Editing and modifying the database:

To edit the database

1. Call up the file

.USE PROJDAT (Enter).

2. LIST FOR PRONAME = "(Put project name) " (Enter).

<Display of record appears>.

3. EDIT 6 (say) (Enter).

(6 above is the number of the record).

The operator should become familiar with the Edit keys.

After the edits have been made, 'End (or 'W) saves changes and returns to the dot prompt.

\*There are several Edit keys. Consult your dBASE text and learn them.

#### EDITING WITH BROWSE

The BROWSE command may be used to edit the contents of the database. This command utilizes the same control keys that EDIT uses.

GLOBAL editing with

CHANGE and REPLACE

We may wish to make the same change to numerous records in the database. This is called "global editing". If for example, we wished to change XRATE for COUNTRY, we type;

.CHANGE FIELD XRATE FOR COUNTRY = "BELIZE" (Enter).

Test:

<The screen shows the field to be changed, allowing for stepping
through the file>.

A quicker means of making the global change is through the use of the command "REPLACE".

For example:

.REPLACE ALL SECTOR with "Agriculture " for SECTOR = "Agric." (Enter).

This command says "Anywhere you see "Agriculture" as the sector, replace it with "Agric."

To see the amendment, type

LIST

\* Extreme care must be taken with this command, because if we exclude the condition (FOR SECTOR = "Agriculture"), every project will register "Agric." in the sector column. Clearly, that would not be what we would have wished.

DELETING from the database with

DELETE PACK and RECALL

The DELETE command is used to mark records for deletion, and the PACK command is used to permanently delete records.

If, after we have marked a record for deletion, we do not wish to go through with the deletion, we can recall it.

We type,

RECALL RECORD 9 (say) (Enter).

The PACK command copies the file PRODATA to a new file PRODATA while it deletes the record(s) to be deleted, then it erases the old PRODATA file.

#### PRINTING

There are two major types of printed report required.

- 1. A printout of the entire database, and
- 2. A formatted report which prints out exactly what the officer wants to print.

The following describes how printing is done in each of these cases.

CASE I - Entire database contents:

A printout of the entire database

At the end of your data input, the database will be saved on disk.

- 1. Copy the file PROJDAT.DBF to a formatted diskette in floppy drive A:
  - To do this, put the computer into DOS, put the formatted diskette in drive A:, and go into the dBASE III sub-directory.
- 2. Type COPY PROJDAT.DBF (Space) a: and hit (Enter). The file will be 'copied to drive A: (and the screen will tell you "I file copied").
- 3. Put the computer into the lotus 1-2-3 sub-directory by typing:

cd (space) c:\lotus (Enter).

Then the screen will show

C>

Then type

lotus (Enter).

The introductory menu appears.

Put the cursor on "Translate".

The screen asks you

"What do you want to translate FROM?"

Move the cursor to dBASE III, and hit (Enter).

The screen asks

"What do you want to translate TO?"

Place the cursor to 1-2-3 2.01 and hit (Enter).

A note for you to read appears.

Hit (Escape) to continue.

A screen comes up saying:

Translate FROM: dBASE III Translate TO:1-2-3 2.01 Source File: c:\LOTUS \*.DBF [for example]

Follow screen instruction to change source file

Enter the name of the file you want to translate,

e.g.

18 17 }

A: PROJDAT.DBF and (Enter).

The name of the file appears highlighted. e.g.

PROJDAT.DBF (If the file is on a diskette in drive A: the file name would be A: PROjdat.DBF) (Enter).

The screen will say

Translate FRCM:dBASE III Translate TO:1-2-3 2.01 Source File:A:\PROJDAT.DBF Destination:A:\PROJDAT.WKl. (Enter).

A verification asks:

"Proceed with translation"

[YES] No Quit

You want to proceed, so hit (Enter).

The translation process is started. At the end, the screen says:

#### Translation successful

\*You have just translated a dBASE III file to a lotus 1-2-3 file. This will enable you to print the entire file using Sideways. You will not have, to cut and paste.

Press (Escape) twice.

A screen asks you:

Do you want to leave Translate? No Yes

Use the right arrow to put the cursor on Yes and press (Enter).

You are now back out in the 1-2-3 menu. Put the cursor on (Exit) using the right arrow then hit (Enter).

You are now back out into the Main Lotus Menu.

Туре

SW123

The Sideways screen comes up.

Press (Enter) to begin:

A lotus worksheet screen comes up.

Press

/ then letter "O" (for options).

This brings up an options screen. Using the right arrow, put the cursor on Character and (Enter) or (press C) to modify the character set. This brings up a screen with the word Font highlighted. Hit (Enter).

Decrease is then highlighted. Hit (Enter) to vary the size of the type until you get the size you want, and then move the cursor to QUIT. Hit (Enter). If you wish to increase the font size, put the highlight on Increase and hit (Enter) until you obtain the required size.

Hit

Q

A new screen appears.

Hit

F then R

Then indicate the name of the file. In this case it will be

A: PROJDAT.WK1

The worksheet will come up on the screen.

Hit

A new screen comes up with R highlighted. (Enter).

A highlighted range appears.

Hit (Enter) and a new screen appears.

Move the cursor to Go, or simply hit (G). This starts the printing.

At the end of printing, hit (Q).

CASE 11 - printing formatted reports in dBASE111 Plus

On occasion, special formatted reports will be needed. We can use the dBASE III PLUS built-in report generator.

The report form:

Whenever we create a report format, we must give it a file name so that dBASE can easily find it later. The names used for report forms can be as many as eight characters in length (no spaces, no punctuation marks allowed).

From the dot prompt, type

.USE PROJDAT (Enter)
.MODIFY REPORT REPORT1 (Enter)

The report options screen comes up.

Answer the prompts. With the highlight bar on on "Page title", Hit (Enter). A wide highlighted response area appears. Type in the page title and hit Enter. The response area disappears. Move the cursor down by hitting the down arrow. Hit (Enter) if you want to change any of the options. When you have finished answering all the questions on that first screen, hit the right arrow to go to Groups. If you want no group or sub-group totals, hit the right arrow again to go to contents. The Contents line is highlighted. Hit (Enter). A pointer appears. Hit (F10) to see what choices of field names you have open to you. Move around in those choices with the down arrow. After selecting a field name, hit (Enter) to transfer it to the format and (Enter) again to move on. Use the down arrow to move to "Heading". Type (Enter) and what heading you would like to put to your column in the report. After you have done so, hit (Pg Dn) once or twice to clear the response area for another column designation. The cursor is again on CONTENTS. Hit (Enter). A pointer appears. Hit (F10) to see your choice. Choose another field with the down arrow and hit (Enter) twice. Move the cursor to the highlight and hit (Enter) to bring up the response area for the Heading. Type in a heading and hit (Pg Dn) twice. Continue until you have designed the entire report. right arrow to move to LOCATE. This tells you which fields were selected as columns in the report. Move the right arrow to Exit in order to save the file on disk. With the highlight bar on SAVE, hit (Enter). The screen goes blank and the dot prompt appears.

TO VIEW THE DATA ON THE FORMATTED REPORT, type:

REPORT FORM REPORT1 (one) Enter)

The formatted report appears on the screen.

TO PRINT THE FORMATTED REPORT, type

REPORT FORM REPORT1 TO PRINT (Enter)

In preparing a text report which incorporates data from the PRODATA file, you can import into the text, the file REPORTI. Having imported it to the desired place in the text, you may continue to write the 'textual report.

THE RESERVE OF THE PROPERTY OF

#### INDUSTRIAL CLASSIFICATION

#### SECTION 1

*		CODE
	AGRICULTURE, FORESTRY, HUNTING AND FISHING	
	Agriculture, livestock - production Agricultural services Hunting, trapping and game propagation Forestry and logging Fishing	001 - 032 041 - 049 051 - 052 061 - 069 071 - 072
;	MINING, REFINING AND QUARRYING	101 - 129
	MANUFACTURING	
	Food Beverages Tobacco manufacturing Textile and wearing apparel manufacture Tanneries and leather products (excluding footwear) Manufacture of footwear Manufactures of wood and cork except manufacture of furniture Manufacture of furniture and fixtures (excluding	201 - 212 217 - 229 231 - 232 241 - 249 251 - 259 261 271 - 279
	metal furniture) Manufacture of paper and paper products Printing, publishing and allied industries Manufacture of rubber products Manufacture of chemicals and chemical products Manufacture of products of petroleum and coal (except refining)	281 - 289 291 - 299 301 - 309 311 - 319 321 - 339
	Non-metal mineral products  Manufacture of metal products (except machinery	351 – 369
	and transport equipment) Manufacture and repair of machinery and transport	371 - 379
	equipment Miscellaneous manufacturing industries and repairs	381 - 389 391 - 405
ı	ELECTRICITY, GAS, WATER AND SANITARY SERVICES	411 - 414
	CONSTRUCTION AND INSTALLATION	511 - 519
۲	COMMERCE - WHOLESALE AND RETAIL	
	Wholesale Retail trade general stores	611 - 619 621 - 629

1

TRANSPORT, STORAGE AND COMMUNICATION.  Transport Services incidental to transport Services incidental to transport Services incidental to transport Services incidental to transport Services and warehousing Communication  FINANCING, INSURANCE AND REAL ESTATE  GOVERNMENT  COMMUNITY SERVICES  Education Medical and other, health services Non-profit institutions (serving households)  OTHER SERVICES (INCLUDING PERSONAL)  Business and research services Recreational services Recreational services (i.e. services generally involving the care of the person or his apparel)  MISCELLANEOUS SERVICES  N.E.C. NOT ADEQUATELY CLASSIFIED  990  NOT STATED  998  NO INDUSTRY, NOT APPLICABLE, NONE  999	Transport Services incidental to transport Services incidental to transport Storage and warehousing Communication  FINANCING, INSURANCE AND REAL ESTATE  FINANCING, INSURANCE AND REAL ESTATE  GOVERNMENT  COMMUNITY SERVICES  Education Medical and other, health services Non-profit institutions (serving households)  OTHER SERVICES (INCLUDING PERSONAL)  Business and research services Recreational services Hotels, restaurants and clubs Personal services (i.e. services generally involving the care of the person or his apparel)  MISCELLANEOUS SERVICES  N.E.C. NOT ADEQUATELY CLASSIFIED  990  NOT STATED  999  NO INDUSTRY, NOT APPLICABLE, NONE  999			CODE
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COMMUNITY SERVICES  Education Medical and other, health services Non-profit institutions (serving households)  OTHER SERVICES (INCLUDING PERSONAL)  Business and research services Recreational services Hotels, restaurants and clubs Personal services (i.e. services generally involving the care of the person or his apparel)  MISCELLANEOUS SERVICES  N.E.C. NOT ADEQUATELY CLASSIFIED  990  NOT STATED  999  NO INDUSTRY, NOT APPLICABLE, NONE  999	COMMUNITY SERVICES  Education 821 - 826 827 - 829 827 - 829 821 - 839  OTHER SERVICES (INCLUDING PERSONAL)  Business and research services 851 - 859 861 - 865 861 - 865 861 - 865 861 - 865 861 - 865 861 - 879 861 - 879 861 - 879 871 - 879  MISCELLANEOUS SERVICES (i.e. services generally involving the care of the person or his apparel) 871 - 879  NOT STATED 990  NOT STATED 998  NO INDUSTRY, NOT APPLICABLE, NONE 999			
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Medical and other, health services Non-profit institutions (serving households)  OTHER SERVICES (INCLUDING PERSONAL)  Business and research services Recreational services Hotels, restaurants and clubs Personal services (i.e. services generally involving the care of the person or his apparel)  MISCELLANEOUS SERVICES  N.E.C. NOT ADEQUATELY CLASSIFIED  NOT STATED  998  NO INDUSTRY, NOT APPLICABLE, NONE  827 - 829 831 - 839  841 - 849 851 - 859 861 - 865 971 - 879  871 - 879  990  990  990  990  999	Medical and other, health services Non-profit institutions (serving households)  OTHER SERVICES (INCLUDING PERSONAL)  Business and research services Recreational services Hotels, restaurants and clubs Personal services (i.e. services generally involving the care of the person or his apparel)  MISCELLANEOUS SERVICES  N.E.C. NOT ADEQUATELY CLASSIFIED  990  NOT STATED  998  NO INDUSTRY, NOT APPLICABLE, NONE  999		COMMUNITY SERVICES	
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MISCELLANEOUS SERVICES  N.E.C. NOT ADEQUATELY CLASSIFIED  990  NOT STATED  998  NO INDUSTRY, NOT APPLICABLE, NONE  999	N.E.C. NOT ADEQUATELY CLASSIFIED  NOT STATED  998  NO INDUSTRY, NOT APPLICABLE, NONE  999	·		871 - 879
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		k	NOT STATED	998
·			NO INDUSTRY, NOT APPLICABLE, NONE	999
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#### 1980 POPULATION CENSUS

#### INDUSTRIAL CLASSIFICATION

#### SECTION 11

	CODE	
AGRICULTURE, FORESTRY, HUNTING AND FISHING		
Sugarcane growing	001	
Rice growing	002	
Banana and plantain growing	003	
Tobacco growing	004	
Ginger growing	005	
Trish potato growing	006	
. Sweet potato growing	007	
Corn growing	008	
Soya bean growing	009	
Other field and root crop growing n.e.c.	010 011	
Coffee growing	012	
Cocoa growing Citrus growing	013	
Coconut growing	014	
Cotton growing	015	
Sisal growing ,	016	
Nutmeg growing	017	
Pimento growing	018	
Pineapple growing	019	
Melon growing	020	
Hot pepper growing	021	
Other tree crop growing n.e.c.	022	
Egg production	023	
Poultry production n.e.c.	024	
Dairy farming	025	
Cattle rearing	026	
Pig rearing	027	
Hdrse and mule breeding	028	
Other livestock n.e.c. (sheep, goats)	029	
Horticulture	030	
Mixed farming	. 031	
Other agriculture n.e.c.	032	
AGRICULTURAL SERVICES	· · · · · · · · · · · · · · · · · · ·	
Operating land drainage and irrigation schemes	041	
Husking and threshing of agricultural products	042	
Agriculture service organizations	043	
Other agricultural services n.e.c.	049	
HUNTING, TRAPPING AND GAME PROPAGATION		
Hunting and trapping	051	
Turtle rearing	052	
	***	

		CODE
	FORESTRY AND LOGGING	
•	Planting and conservation of forests Gathering of uncultivated materials, e.g., balata, gums	061
	and resins, sapodilla gum, wild rubber, etc.	062
	Charcoal burning	063
	Timber cutting and logging	064
	Firewood cutting	065
	Other forest activities n.e.c.	069
	FISHING	
	Trawler fishing	071
	Other fishing n.e.c.	072
r	MINING, REFINING AND QUARRYING	
	Pitch mining	101
	Oil, crude petroleum and natural gas production	102
	Bauxite mining	111 ,
	Stone quarrying	112
	Sand quarrying	113
	Gypsum quarrying	114
	Gold mining	115
	Diamond mining	116
	Other quarrying	117
•	Alumina production	- 110
	Ore mining, processing n.e.c.	-119
	Petroleum refining	121
	Asphalt roofing and paving materials production	122
	Petroleum by-products n.e.c.	129
	MANUFACTURING	
	FOOD	,
	Slaughtering, preparing and processing of meat	201
	Manufacture of dairy products	202
	Canning and preserving of fruits, vegetables and	
,	their juices	203
	Canning, preserving and processing of fish and other	
	sea foods	204
F	Manufacture of vegitable and animal oils and fats	205
	Rice milling, wheat milling	206
	Coffee processing	207
	Processing and milling of other crops	208
	Manufacture of bakery products	209
	Manufacture of sugar, molasses	210
	Manufacture of cocoa products and chocolate confectionery	211
	Manufacture of sugar confectionery	212
	imidiate of bagar confectioner,	

		CODE
	BEVERAGES	
	Distilling, blending and bottling of rum Blending and bottling of other spirits Wines, cordials and liqueurs manufacture Beer and stout manufacture Carbonated beverages manufacture Manufacture of other beverages (including cane juice and other local drinks)	217 218 219 220 221
	TOBACCO MANUFACTURING	
. –	Manufacture of cigarettes Manufacture of cigars and pipe tobacco	231 232
	TEXTILE AND WEARING APPAREL MANUFACTURING (EXCLUDING SHOES)	
r	Spinning and weaving (cloth and yarn) Finishing of cloth n.e.c. (including printing and dying) Manufacture by knitting of cloth garments	241 242 243
	Manufacture by cutting and sewing of wearing apparel except shoes  Manufacture of straw materials and goods (goods of coir, sisal, rope)  Tailoring and dressmaking  Manufacture of textile and textile goods n.e.c.	244 245 246 249
	TANNERIES AND LEATHER PRODUCTS (EXCLUDING FOOTWEAR)	
	Tanning Leather bags and accessories Other leather products	251 252 259
	MANUFACTURE OF FOOTWEAR	
	Manufacture and repair of footwear (including footwear of leather, canvas, plastic)	261
,	MANUFACTURES OF WOOD AND CORK EXCEPT MANUFACTURE OF FURNITURE	
	Sawmilling and wood processing ' Prefabricated buildings Wooden boxes, cases and crates Wooden barrels, casks and coopering Cork and cork products	271 272 273 274 275

		CODE
		,
	MANUFACTURE OF FURNITURE AND FIXTURES (EXCLUDING	
*	METAL FURNITURE)	
ч .	Manufacture of wooden furniture	281
*	Manufacture of wooden fixtures (e.g. windows and doors)	282
<b>(4)</b>	Upholstering	283
	Manufacture of mattresses	284
	Other manufacture of furniture and fixtures n.e.c. (e.g. of cane furniture)	289
	(e.g. of cane furnicule)	207
	MANUFACTURE OF PAPER AND PAPER PRODUCTS	
		201
	Toilet and wrapping paper	291 292
	paper bags and envelopes Containers and boxes of paper	292
•	Other paper products (e.g. drinking straws)	299
;*		•
	PRINTING, PUBLISHING AND ALLIED INDUSTRIES	
٤	Newspaper publishing (daily and weekly)	301
·	Magazines (fortnightly, monthly, quarterly, etc.)	302
	Job printing Sign painting	303 304
	Other printing, publishing and allied industires	309
•	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
h	MANUFACTURE OF RUBBER PRODUCTS	
*	Rubber mats and belting	311
ř	Rubber heels	312
	Rubber clothing and accessories	313 314
	Tyres Tyre retreading and vulcanizing	315
	Other rubber and rubber products	319
	MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS	
	Dyes, bleaches and inks	321
	Plastic and plastic resins	322
•	Carbon dioxide and dry ice	323 324
•	Acids, alkalis and salts n.e.c. Oxygen and acetylene	325
	Fertilizers	326
•	anufacture of disinfectants and room deodorants	327
*	Manufacture of paints, varnishes and lacquer	328
	Manufacture of toilet preparations (including perfume)	329
ÿ	Manufacture of pharmaceutical products (drugs and medicines)	330
	Manufacture of soap and soap products Manufacture of foam rubber	331 332
	Manufacture of roam rubber Manufacture of plastic goods	333
	Manufacture of other chemical products n.e.c.	
	(e.g. glue and insecticide)	339
	Manufacture of products of petro!eum and coal	
•	(except refining)	.341

	•		
			CODE
		NON-METALLIC MINERAL PRODUCTS	
ند ر <b>م</b> م		Cement	351
	•	Premixed mortar	352
Ğ		Structural concrete products (including concrete pipes	
		and blocks	353
		Bricks, tiles and pipes of clay Pottery, ceramics and china ware	354 355
		Manufacture of gypsum products	356
		Manufacture of mice films and blocks	357
		Alabaster working	358
		Manufacture of glass and glass products Marble working (including tombstones)	359 360
		Lime kiln burning (white lime)	361
		Other non-metallic mineral products n.e.c.	369
	;*	MANUFACTURE OF METAL PRODUCTS (EXCEPT MACHINERY AND TRANSPORT EQUIPMENT)	
		Metal furniture	371
		Aliminum ware (including guttering and kitchen utensils)	371
		Metal awnings	373
		Structural parts of metal (including gates, grillwork,	27.4
<b>†</b> )		doors and windows) Manufacture of galvanized products	374 375
y		Manufacture of hand tools	376
-		Manufacture of other metal products and works n.e.c.	379
,		MANUFACTURWE OF MACHINERY AND TRANSPORT EQUIPMENT	
		Manufacture of industrial machinery, parts and repairs	381
		Manufacture of agricultural machinery, parts and repairs	382
	,	Manufacture of electrical machinery, parts and repairs	383
		Manufacture of bicycles and parts Manufacture of repair of railway equipment and parts	- 384 -385
* *****		Manufacture of motor vehicles and motor cycles and parts	386
		Manufacture and repair of aeroplanes and aircraft parts	387
		Ship building and repairing (including boat building)	388
	,	Other manufacture of machinery and transport equipment n.e.c.	389
		MISCELLANEOUS MANUFACTURING INDUSTRIES AND REPAIRS	
ħ	1	Manufacture and repair of professional, scientific,	
	,	measuring and controlling instruments	391
r		Manufacture of photographic and optical goods Manufacture of watches and clocks	392 393
		Fabrication of precious and semi-precious stones and	333
		metals into jewellery and other products	394
		Manufacture of musical instruments	395
		Manufacture and repair of medical and dental instruments	396 307
		Manufacture and assembly of batteries Manufacture of neon signs	397 398
		Manufacture of brushes and brooms	390

		CODE
	Miscellaneous manufactures (zippers, buttons, brake-lining, rubber stamps, crown corks, etc.  Manufacture of radio, television sets and records  Manufacture and repair of refrigerators  Manufacture of electrical appliances n.e.c.  Miscellaneous manufacturing industries n.e.c.	401 402 403 404 405
	ELECTRICITY, GAS AND WATER	
	Electric light and power Gas manufacture and distribution Water Sanitation services (garbage and sewerage disposal)	411 412 413 414
	CONSTRUCTION AND INSTALLATION	
::`	Construction and maintenance - house and buildings Construction and maintenance - roads, bridges, water mains	511
	reclamation works, etc. Electrical engineering (including air conditioning	512
	<pre>installation) Painting Demolition - buildings, etc. Other construction and installation n.e.c.</pre>	513 514 515
	(including dredging)	519
	COMMERCE - WHOLESALE AND RETAIL	
	Wholesale	
	Food and drink wholesale merchants Chemical and drugs wholesale merchants Textile apparel, leather wholesale merchants Scrap metal dealers Exporters of agricultural products (agricultural produce dealers and bulk buyers) Fuel wholesale merchants Other wholesale trade n.e.c.	611 612 613 614 615 616 619
	Retail Trade	
i v	Meat and agricultural produce stores General food and beverage stores Building materials, hardware, furniture, household appliances	621 622 623
	Clothing, boots, shoes, books and stationery and similar dry goods (including department stores) Drug stores Motor vehicles Petroleum and gas fuel	624 625 626 627
	Other retail activities (flower shops, etc.)	629

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Armed forces  Central administration  Legal and judiciary  Police and prison  Fire services  Foreign governments (including diplomatic missions  811  812  813  814  815  815  816		$\cdot$	CODE
Railway transport		TRANSPORT, STORAGE AND COMMUNICATION	ŧ
Railway transport Bus operations Caxi cabs and car rental Other road transport (including lorries, trucks) Ocean transport Inland and coastal water transport Ocean transport Other transport Inland and coastal water transport Other transport Other transport Other transport Other transport n.e.c.  Services Incidental to Transport  Travel and steamship agencies Operation of docks, piers, wharves and warehouses Supporting service to land transport (including car rental and parking, toll roads and bridges) Supporting services to air transport Other services n.e.c. Other services n.e.c. Other services n.e.c. Other services n.e.c.  Communication  Post and telegraph services Telephone services Cable and wireless Office and wireless Office and wireless Office and Mutual Insurance Financial estate developers Building societies Other Long-term financing Socrt-term financing (including hire purchasing) Financial establishments n.e.c.)  GOVERNMENT  Armed forces Central administration Legal and judiciary Police and prison Fire services Foreign governments (including diplomatic missions		Transport	
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Life and Mutual Insurance  General Insurance  General Insurance  Real estate agents  Real estate developers  Building societies  Other long-term financing  Financial establishments n.e.c.)  GOVERNMENT  Armed forces  Central administration  Legal and judiciary  Police and prison  Fire services  Foreign governments (including diplomatic missions  732  733  734  735  736  737  736  737  737  738  737  738  739  739  739		FIANCING, INSURANCE, REAL ESTATE	
Life and Mutual Insurance  General Insurance  General Insurance  Real estate agents  Real estate developers  Building societies  Other long-term financing  Financial establishments n.e.c.)  GOVERNMENT  Armed forces  Central administration  Legal and judiciary  Police and prison  Fire services  Foreign governments (including diplomatic missions  732  733  734  735  736  737  736  737  737  738  737  738  739  739  739		Panking institutions	731
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GOVERNMENT  Armed forces Central administration Legal and judiciary Police and prison Fire services Foreign governments (including diplomatic missions  739  811  812  813  814  Fire services 815  Foreign governments (including diplomatic missions			
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Fire services 815 Foreign governments (including diplomatic missions 816			
Foreign governments (including diplomatic missions 816			
	,	International organizations	

	CODE
Sanitary and public health services Other government services n.e.c.	818 819
COMMUNITY SERVICES	
Education	
Primary schools Secondary schools Technical, vocational and commercial schools Universities Research and scientific institutions Other educational services n.e.c. (driving schools) Medical and other Health Services	821 822 823 824 825 826
Government medical institutions	827
Private medical institutions Other medical, dental, health and veterinary services	828 829
Non-profit Institutions (Serving Households)	
Religious institutions and organizations	831
Welfare institutions (Red Cross, Y.M.C.A., Orphanages, Day Nurseries)	832
Trade Associations, Political Parties, Professional and Labour Organizations	833
Civil, Social and Fraternal Associations, (Friendly Societies)	834
Other institutions not operating to realize profits (Health, Education, etc.)	839
OTHER SERVICES (INCLUDING PERSONAL)	
Business and Research Services	
Data processing services Advertising services Legal services - (non-government) Accounting, auditing and book-keeping services Surveyors and architects Engineering and technical services Shipping pilots Machinery and equipment rental or leasing Other business and professional services n.e.c.	841 842 843 844 845 046 847 840 849
Recreational Services	
Motion picture production Libraries, museums, botanical and zoological gardens Cinemas and theatres Orchestras, own account musicians and musical	851 852 853
entertainment, entertainment services n.e.c.	854

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Horse racing Radio and television broadcasting Member clubs and recreational associations Betting services (including lotteries) Amusement and recreational services n.e.c. (e.g. boxing fairs, circus and sail boats rental)	855 856 857 858
Hotels, Restaurants and Clubs	
Hotels, guest houses and other lodging places (including camps) Restaurants and lounges Night clubs Bars and tarvens Snack counters and cold supper shops	861 862 863 864 865
Personal Services (i.e. services generally involving the care of the person or his apparel)	
Domestic services (i.e. services in private houses, e.g. cooks, maids, gardeners, etc.) Laundries and dry cleaning Barbers and beauticians Massaging and bodybuilding services, gymnasia Portrait and commercial photography Undertakers, embalmers and cremators Personal services n.e.c.	871 872 873 874 875 876 879
MISCELLANEOUS SERVICES	
Pest control Security services and private detective agencies Other services n.e.c. (watch repair, musical instrument repair, battery charging, repair of machinery and	881 882
transport equipment, repair of air conditioner) Not adequately classified	889 990
Not stated	998
No industry, Not applicable, None	999