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AFRICAN WORKSHOP ON STRATEGIES FOR ACCELERATING THE IMPROVEMENT OF CIVIL REGISTRATION AND VITAL STATISTICS SYSTEMS ADDIS ABABA, ETHIOPIA, 5 TO 9 DECEMBER 1994

STATISTICAL DIVISION UNITED NATIONS ECONOMIC COMMISSION FOR AFRICA

AUTOMATION OF CIVIL REGISTRATION HAND OUT ON A DEMONSTRATION OF A PC-BASED SYSTEM TO REGISTER, STORE AND RETRIEVE CIVIL REGISTRATION: THE BOTSWANA CIVIL REGISTRATION SYSTEM

BY

UNFPA CST - ADDIS ABABA/ECA

AW/CRVS/94/28 28 Novembre 1884)

Automation of Civil Registration Hand-out on a demonstration of a PC-based system to register, store and retrieve civil registration information: The Botswana Civil Registration System

BY

UNFPA CST I / ECA

The Phase I of the application consists of four major tasks:

1. Capturing data from birth and death notices and creating two batch ASCii files: one for births and another one for deaths.

2. Editing of the batch files:

range and consistency checks

duplication checks.

This can be carried out in two modes: batch mode or interactive mode. The editing programme is very well documented and displays detailed error messages.

No automatic imputation is performed. Correction of errors are to be done on the screen using CENTRY with CONCOR.

3.

Issuing of births and deaths certificates.

4.

Producing over 60 distribution and percentage tables from both births and deaths files for any selected period.

The tables are stored in a table retrieval system for easy reference and dissemination.

Presentation of the application

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The description made below applies to the Notice of birth. The same procedures are followed when dealing with information on death, the difference being the files used.

1) <u>Data Capture</u>

a) Dictionary is in file BIRTHX.DD. It contains the meta-information of the Notice of birth. A notice is identified by 4 items:

type of declaration

serial number

record number

registration number

These items are defined in the COMMON segment of the dictionary with the view of avoiding duplicate identifications during data entry.

b) The data entry application for births is BIRTHX.AP. It contains 5 data entry screens, the first being for identification variables. The next four correspond to the structure of the Notice of birth. They are for information on:

the Declarant

the new born baby

the mother

the father

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c) Rectangular files are created during data entry, one for each year. The output file names are BIRYYMMX.BCH where YY represents the last two digits of the year of birth, MM the month of data entry, X the operator code.

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2. Editing

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a) The editing programme is BIRTHX.CN and can be run over the concatenated and sorted data file (batch mode). However, since no automatic correction is performed, it is recommended to use the interactive mode for editing, that is data entry (ENTRY) with editing (CONCOR).

The CONCOR programme is automatically executed after information relating to a form has been completely captured. A window displays detailed messages of detected errors.

Corrections of the errors are made on-line by the operator and/or the supervisor.

The output file can be created with the same name and extension OUT. It is the tabulation file.

b) The edit rules for alphanumeric items (names) are as follows:

redefinition of the first character of the field in two different variables: one alphabetic and the other numeric.

The rule is a test of non-numericity of the numeric variable.

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3. Issuance of Certificates

Two types of certificates are produced: birth and still-birth certificates. A CONCOR programme has been developed for this purpose. However, the output which is an ASCii file can be imported to a desktop publisher or a word processing packages for better formatting and printing.

4. <u>Production of tables</u>

Tables production done using the CENTS module. For births 30 distribution and percentage tables are produced. The names of the files are:

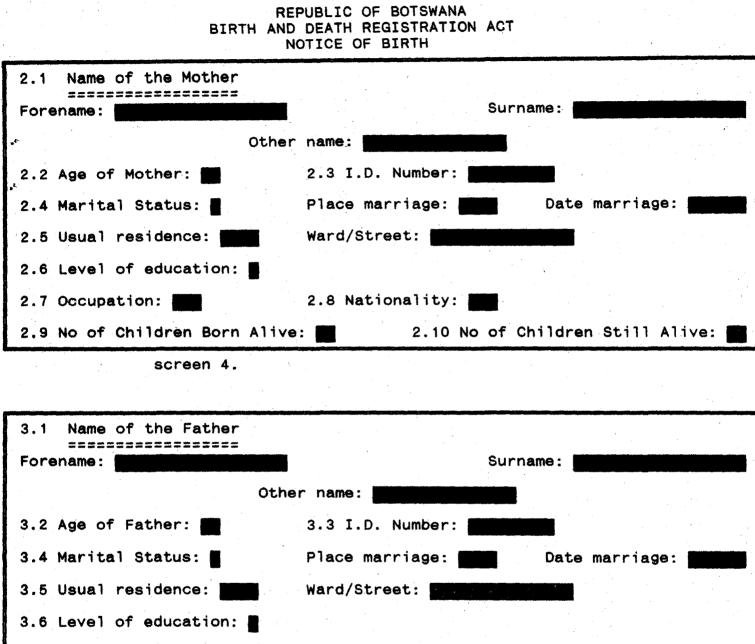
BIRTHX.TAB for the programme BIRTHX.FMT for the table formats BIRTHX.TBL and BIRTHX.TBF for the tables

The tables are then stored in a table retrieval system using TRS module. This special application is in a different directory VISTATS.

SUMMARY OF PROGRAMMES AND DATA FILES

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IMPS	5 Modules	BIRTH	DEATH
DISTRICT		BIRTHX.DD	DEATH.DD
		and the second	
CENTRY	application	BIRTHX.AP	DEATHS.AP
	output	*.BCH	*.BCH
CONCOR	programme	BIRTHX.CN	DEATH.CN
	Input	BIRTHX.BCH	*.BCH
5	Output	BIRTHX.QST	*.QST
		BIRTHX.SUM	*.SUM
CENTS	Formats	BIRTĤX.FMT	DEATHS.FMT
nta esta de la	programme	BIRTHX.TAB	DEATHS.TAB
	output	BIRTHX.TBL	DEATHS.TBL
		BIRTHX.TBF	DEATHS.TBF
TRS		VIBTATS.MNU	
		VISTATS.TS	
,		VISTATS.TI	
		VISTATS.nnn	
			· · · · · · · · · · · · · · · · · · ·

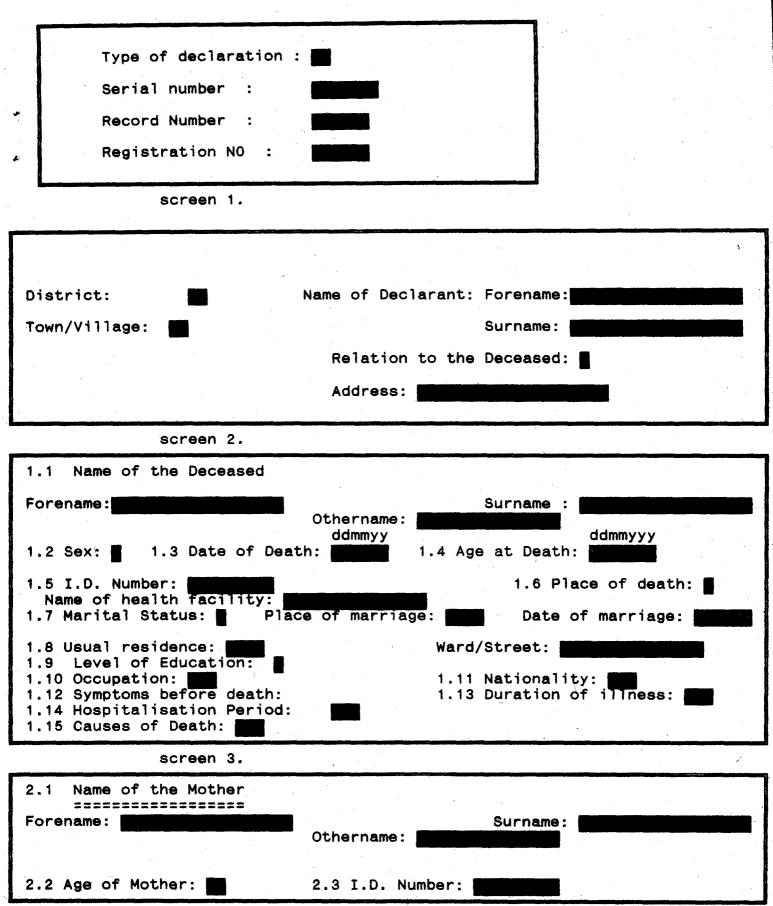


3.8 Nationality:

screen 5.

3.7 Occupation:

REPUBLIC OF BOTSWANA BIRTH AND DEATH REGISTRATION ACT NOTICE OF DEATH



REPUBLIC OF BOTSWANA

BIRTHS AND DEATHS REGISTRATION ACT

BIRTH CERTIFICATE (Regulation ...)

Birth Identity Number....

1. Full name of child :

2.

Karabo Forename

Zanisani Other names Mahochi Surname

Sex : Female

3. Date of birth : Time Day 10 Month June Year 1992

4. Place of birth: Village/Town: Francistown District: Francistown Country: Botswana

5. Mother's Name(s): Elinah Nationality: BOTSWANA

Surname : Mahochi

6. Father's Name(s): Nationality:

7. Date of registration

I hereby certify the above to be a true and correct extract from the Births Register kept in Gaborone in the Republic of Botswana.

Dated this day of month year

REGISTRAR OF CIVIL REGISTRATION

Surname :

VITAL STATISTICS FROM BOTSWANA CIVIL REGISTRATION : DEATHS

TABLE 1: NUMBER OF DEATHS IN PILOT AREAS BY PLACE OF DEATH TABLE 1A: PERCENTAGE OF DEATHS IN PILOT AREAS BY PLACE OF DEATH TABLE 2: NUMBER OF INSTITUTIONAL DEATHS BY AGE AND SEX TABLE 2A. PERCENTAGE OF INSTITUTIONAL DEATHS BY AGE AND SEX TABLE 3: NUMBER OF NON-INSTITUTIONAL DEATHS BY AGE AND SEX PERCENTAGE OF NON-INSTITUTIONAL DEATHS BY AGE AND SEX TABLE 3A. TABLE 4: NUMBER OF DEATHS BY PLACE OF DEATH , SEX , MARITAL STATUS AGE GROUP AND TABLE 4A: PERCENTAGE OF DEATHS BY PLACE OF DEATH , SEX , MARITAL STATUS AND AGE GROUP TABLE 5: NUMBER OF DEATHS BY PLACE OF DEATH , SEX AND LEVEL OF EDUCATION PERCENTAGE OF DEATHS BY PLACE OF DEATH , SEX AND LEVEL OF TABLE 5A. EDUCATION TABLE 6: NUMBER OF DEATHS BY OCCUPATION AND SEX TABLE 6A. PERCENTAGE OF DEATHS BY OCCUPATION AND SEX TABLE 7: NUMBER OF DEATHS BY AGE OF MOTHERS FOR CHILDREN DECEASED BELOW AGE 16 TABLE 7A: PERCENTAGE OF DEATHS BY AGE OF MOTHERS FOR CHILDREN DECEASED BELOW AGE 16 TABLE 8: NUMBER OF DEATHS BY PLACE OF DEATH, NATIONALITY AND SEX PERCENTAGE OF DEATHS BY PLACE OF DEATH, NATIONALITY AND SEX TABLE 8A. TABLE 9: NUMBER OF DEATHS AGE, SEX AND CAUSES OF DEATH TABLE 9A. PERCENTAGE OF DEATHS BY AGE, SEX AND CAUSES OF DEATH TABLE 9: NUMBER OF DEATHS AGE, SEX AND CAUSES OF DEATH (Francistown area) TABLE 9A. PERCENTAGE OF DEATHS BY AGE, SEX AND CAUSES OF DEATH (Francistown area) TABLE 9: NUMBER OF DEATHS AGE, SEX AND CAUSES OF DEATH (Kanye area) TABLE 9A. PERCENTAGE OF DEATHS BY AGE, SEX AND CAUSES OF DEATH (Kanye area) TABLE 9: NUMBER OF DEATHS AGE, SEX AND CAUSES OF DEATH (Serowe area) TABLE 9A. PERCENTAGE OF DEATHS BY AGE, SEX AND CAUSES OF DEATH (Serowe area) TABLE 9: NUMBER OF DEATHS AGE, SEX AND CAUSES OF DEATH (Gomare area) TABLE 9A. PERCENTAGE OF DEATHS BY AGE, SEX AND CAUSES OF DEATH (Gomare area) TABLE 10: NUMBER OF INSTITUTIONAL DEATHS BY SEX AND HOSPITALISATION PERIOD TABLE 10A. PERCENTAGE OF INSTITUTIONAL DEATHS BY SEX AND HOSPITALISATION PERIOD TABLE 11: NUMBER OF INSTITUTIONAL DEATHS BY AGE, SEX AND DURATION OF ILLNESS TABLE 11A. PERCENTAGE OF INSTITUTIONAL DEATHS BY AGE, SEX AND DURATION OF ILLNESS TABLE 12: NUMBER OF NON-INSTITUTIONAL DEATHS BY AGE, SEX AND DURATION OF ILLINESS TABLE 12A. PERCENTAGE OF NON-INSTITUTIONAL DEATHS BY AGE, SEX AND DURATION OF ILLINESS Number of deaths by place and month of death Table 13. Table 13A. Percentage of deaths by place and month of death

VITAL STATISTICS FROM BOTSWANA CIVIL REGISTRATION : BIRTHS Number of births by age of mother (13 to 55) and place of Table 1. birth Table 1A. Percentage of births by age of mother (13 to 55) and place of birth Number of live births by sex and sex ratio. Table 2. Percentage of live births by sex and sex ratio. Table 2A. Number of still births by age of mother and place of Table 3. birth Percentage of still births by age of mother and place of Table 3A. birth Number of births including still births by place of Table 4. delivery Percentage of births including still births by place of Table 4A. delivery Table 5. Number of births by marital status of the mother Percentage of births by marital status of the mother le Table 5A. Percentage of births by marital status of the mother 5A. Number of births by usual place of residence of mothers TABLE 6: TABLE 6A: Percentage of births by usual place of residence of mothers Table 7. Number of births by level of education of mother Percentage of births by level of education of mother Table 7A. Table 8. Number of births by occupation of mothers Percentage of births by occupation of mothers Table 8A. Table 9. Number of mothers and births by nationality of mother Table 9A. Percentage of mothers and births by nationality of mother Table 10. Number of children ever born alive (including the last born) by age of mother Percentage of children ever born alive (including the last Table 10A. born) by age of mother Table 11. Number of children surviving (including the last born) by age of mother Table 11A. Percentage of children surviving (including the last born) by age of mother Number of live births by gestation period Table 12. Percentage of live births by gestation period Table 12A. Table 13. Number of children born alive by weight Table 13A. Percentage of children born alive by weight TABLE 14. Number of live births by status of birth TABLE 14A. Percentage of live births by status of birth Number of births by place and month of birth Table 15. Table 15A. Percentage of births by place and month of birth