



Government of the Republic of Trinidad and Tobago

## Ministry of Health

INFORMATION AND COMMUNICATIONS TECHNOLOGY DIVISION  
First Floor, Park Plaza, St. Vincent Street, Port of Spain

# CUDTS

## Current State

&

## Future State

Prepared by: Vashti Pirmal

Systems Analyst



1(868) 623-9756  
1(868) 627-0010/12/14 Ext. 1652/1777



1(868) 623-9756



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## Document Sign Off

By signing this document, I acknowledge that I have reviewed the information and agreed to all statements made within.

Name	Position	Date	Signature



## 1.0 Introduction

Established in 1969, the Population Programme Unit (PPU), now under the Directorate of Women's Health (DoWH) at the Ministry of Health is responsible for the delivery of fertility management and Sexual and Reproductive Health (SRH) services across Trinidad and Tobago at all primary care facilities (Family Planning), the Port of Spain General Hospital and the Mt. Hope Women's Hospital. Services include a variety of contraceptive options, pregnancy testing and family life counselling, to name a few.

At the PPU, one of the tools that was developed to assist with the effective management and dissemination of SRH services is the Contraceptive Usage and Distribution Tracking System (CUDTS) software, implemented since 2007. This application tracks the national distribution and usage of contraceptives and other related services that fall under reproductive health. Specifically, patient demographics, choice and usage of contraceptives distributed, and details on reproductive health tests are all captured. However, to accommodate the growing populace and its needs, coupled with rapidly changing technology, this software is no longer feasible and has in fact, become obsolete and problematic. This Current State Analysis document delves into the existing CUDTS application, the requirements that it fulfils and the areas of improvement that are expected to be addressed with the replacement solution.



## 2.0 Current State

### Process

This section describes the process of data gathering for input into the CUDTS application from the point of initial contact with the patient to data entry at PPU. Information is collected from the ninety-four (94) Family Planning Clinics (FPC's) currently operational across Trinidad and Tobago, all of which falls under the remit of PPU. The following are the steps in the process:

1. Standard forms/cards are sent by the PPU to the FPC's for data collection by the sessional clerks and the medical staff. Samples of each are attached as Appendix (i,ii,iii). There are three (3) main forms:
  - a. **New Case Cards**
  - b. **Walk-In Case Cards**
  - c. **Daily Register**
2. The forms/cards are completed as required using the following guideline:
  - a. **New Clinic Clients**- New Case Cards are completed for new clients who have come to join the clinic. One part of the form is fillable by the nurse/doctor, while the other is done by the sessional clerk.
  - b. **Walk-In's**- Walk-In Case Cards are used for clients who have come only to receive a SRH service but not join the clinic. Examples of where this form would be used include persons who visit to collect condoms or have a prostate test or pap smear done. This form is completed by the sessional clerk.
  - c. **Daily Operations**- The Daily Register is completed everyday by the sessional clerk. Information on all persons visiting the clinic on the particular day is inserted. These include, new clients, walk-ins, re-visits etc. Information on what service received is also recorded on the daily register. This is completed by the sessional clerk.
3. For all new clinic patients, a file is immediately opened in which the completed New Case Card is inserted.



4. Forms are collated daily at the various FPU's and at the end of every three (3) months, all completed forms are submitted to the PPU by the clerks either by mail or hand-delivered. All forms are at PPU on or before the fifth (5<sup>th</sup>) day of every fourth (4<sup>th</sup>) month.

It is to be noted that all forms from Tobago are brought by the Tobago driver who comes to Trinidad twice per week, and not at the end of three (3) months.

5. Upon arrival at the Population Programme Unit, the Clerk I receives all forms and stamps them as "Received".
6. The stamped forms are then passed to the Principal Statistical Officer (PSO?), who records on an Excel spreadsheet the date they are stamped. The records are categorized by Month, Health Centre and Region.
7. The forms are then checked by the PSO.
8. After checks are completed, the forms are passed to the Data Entry Clerks for entry into CUDTS.



## **Application- CUDTS**

This section describes the process of data entry into the CUDTS application at the PPU by the data entry clerks as follows:

1. Application Access- To launch the application, a desktop icon titled "CUDTSFinal- Shortcut" (Figure 1) is double clicked.



Figure 1

2. Main Menu- The Main Menu is the first screen that opens when the application is launched. From here, one is able to navigate the database by making the selection that best applies i.e. Case Cards, Daily Registers, Maintain Application Lists or Exit Application. See Figure 2 below.



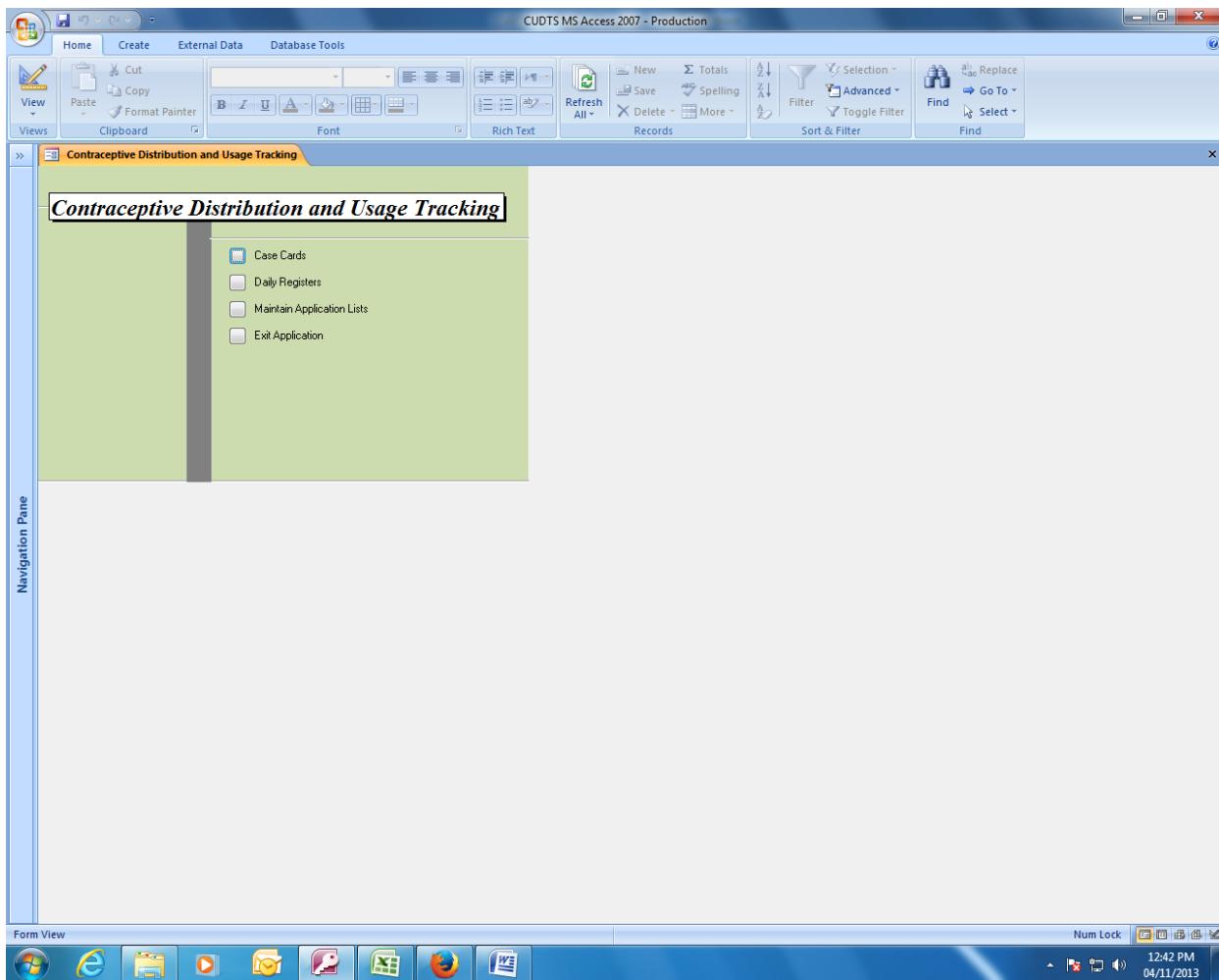


Figure 2

3. Case Card- Upon selection of the first option, "Case Card", the following screen appears (Figure 3), which grants the user the option to:

- Select a Facility
- Create a New Case Card
- View Details
- Close



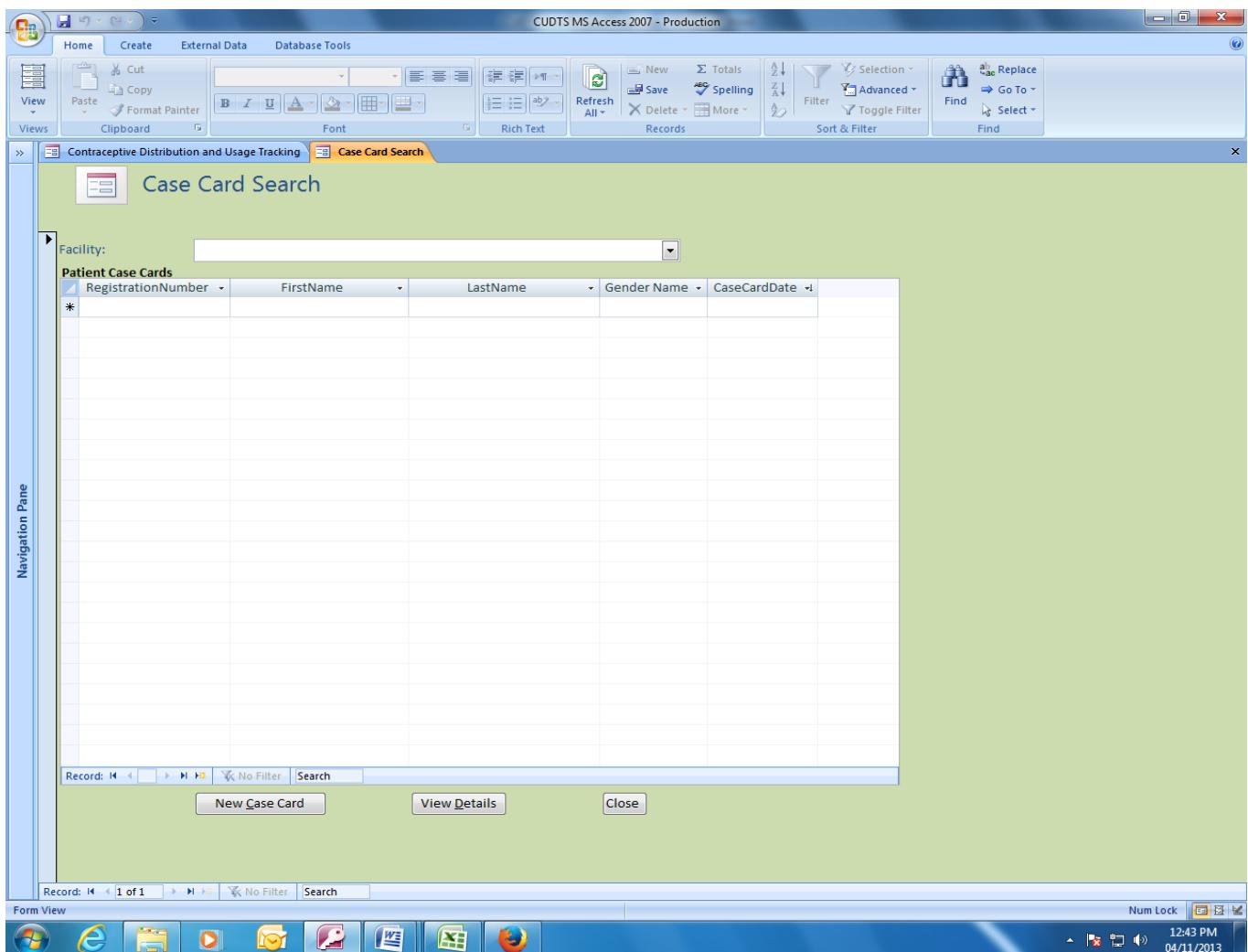


Figure 3

4. New Case Card- When "New Case Card" is selected, the screen below (Figure 4) appears, allowing users to add a new patient to the database. Mandatory fields are **Registration#, Clinic#, Date of Visit, Last Name** and **First Name**. Without information being populated into these five fields, the record will NOT be saved.

It is important to note that and the user MUST enter all available data into the case card before any information can be entered into the Daily Registers.



Upon completion of entry of all available data, the "Submit" button is to be clicked and the record is saved.

When all Cards are entered, the "Close" button is clicked to Exit and return to Figure 3.

The screenshot shows a Microsoft Access 2003 window titled "CUDTS MS Access 2003 - Pre-Production". The main area displays a data entry form for a "CASE CARD". The form includes the following sections:

- Personal Identification:** Fields for National ID#, Registration #, Clinic #, Passport #, Driver's Permit #, Former Registration #, Date of Visit, Last Name, and First Name.
- Address and Contact Information:** Fields for Street Name, City Name, Country (Trinidad And Tobago), Change of address, Street name, City Name, and Telephone.
- Patient Information:** Fields for Date of Birth, Age at Case Card Date, Current Age, Gender, Ethnic Group, Religion, Highest Level of Educational Attainment, Employment Status, Household Income Occurrence, Household Income Range, and What influenced you to attend this clinic?
- TO BE COMPLETED BY CLINIC NURSE OR DOCTOR:** Fields for Total number of pregnancies, Total number of live births, Total number of children alive, Year of last pregnancy, Gestation weeks, Outcome of last pregnancy, Intend to have more children, How many more children?, Name of contraceptive method used before, Previously used contraceptive method (Yes/No), and Contraception Type.
- Action Buttons:** "Submit" and "Close" buttons at the bottom of the form.

The status bar at the bottom shows "Record: 1 of 1", "SQL Cookbook.pdf - Adobe Reader", and the system date and time: "04:16 PM 16/08/2013".

Figure 4



5. View and Edit Case Cards- To view and edit case cards, the user returns to the screen in Figure 3, and selects a Facility under Case Card Search as shown in Figure 5. Upon choosing the Facility, the View Details button located at the bottom next to New Case Card, is clicked.

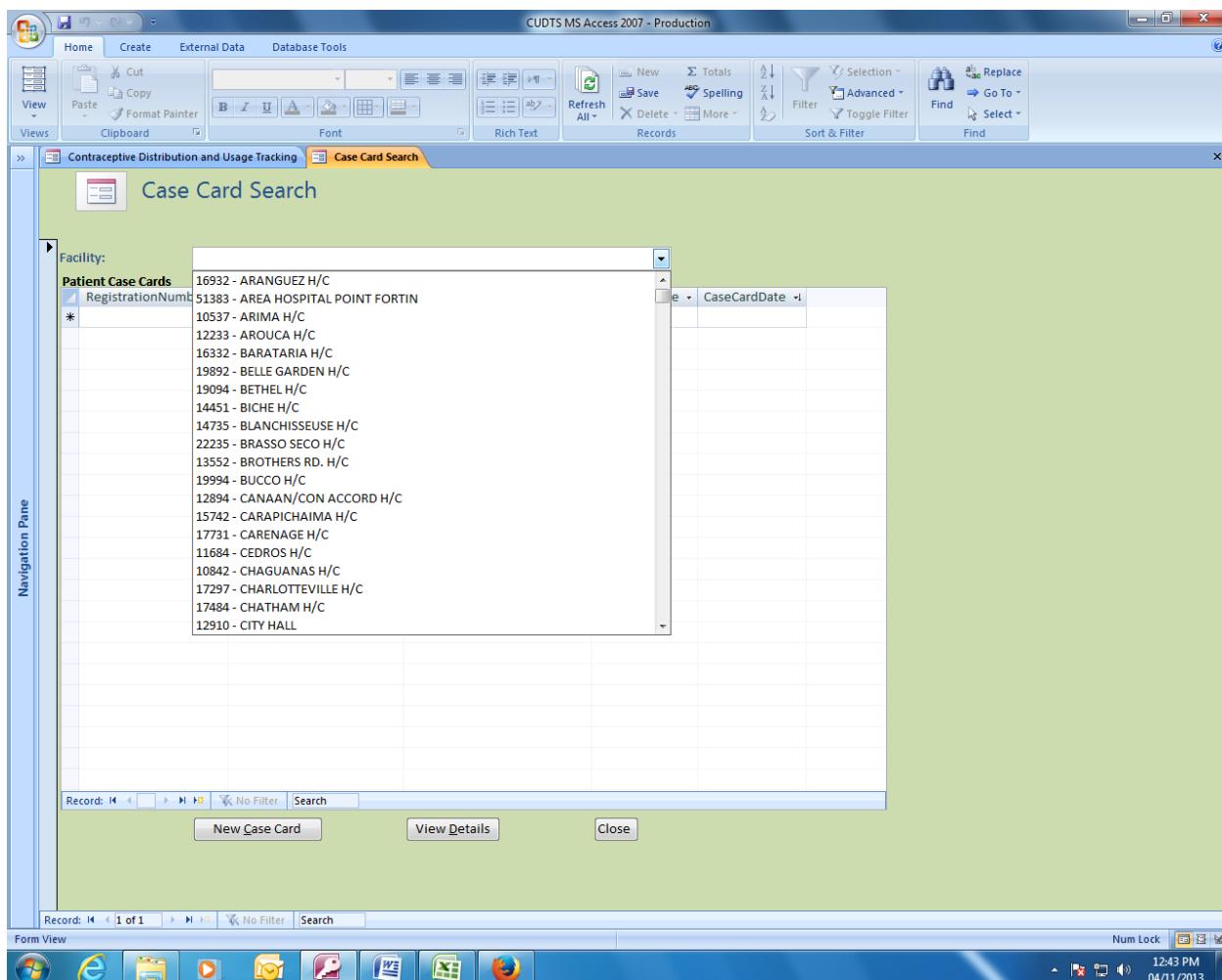


Figure 5



The following screen (Figure 6) appears upon clicking the “View Details” button.

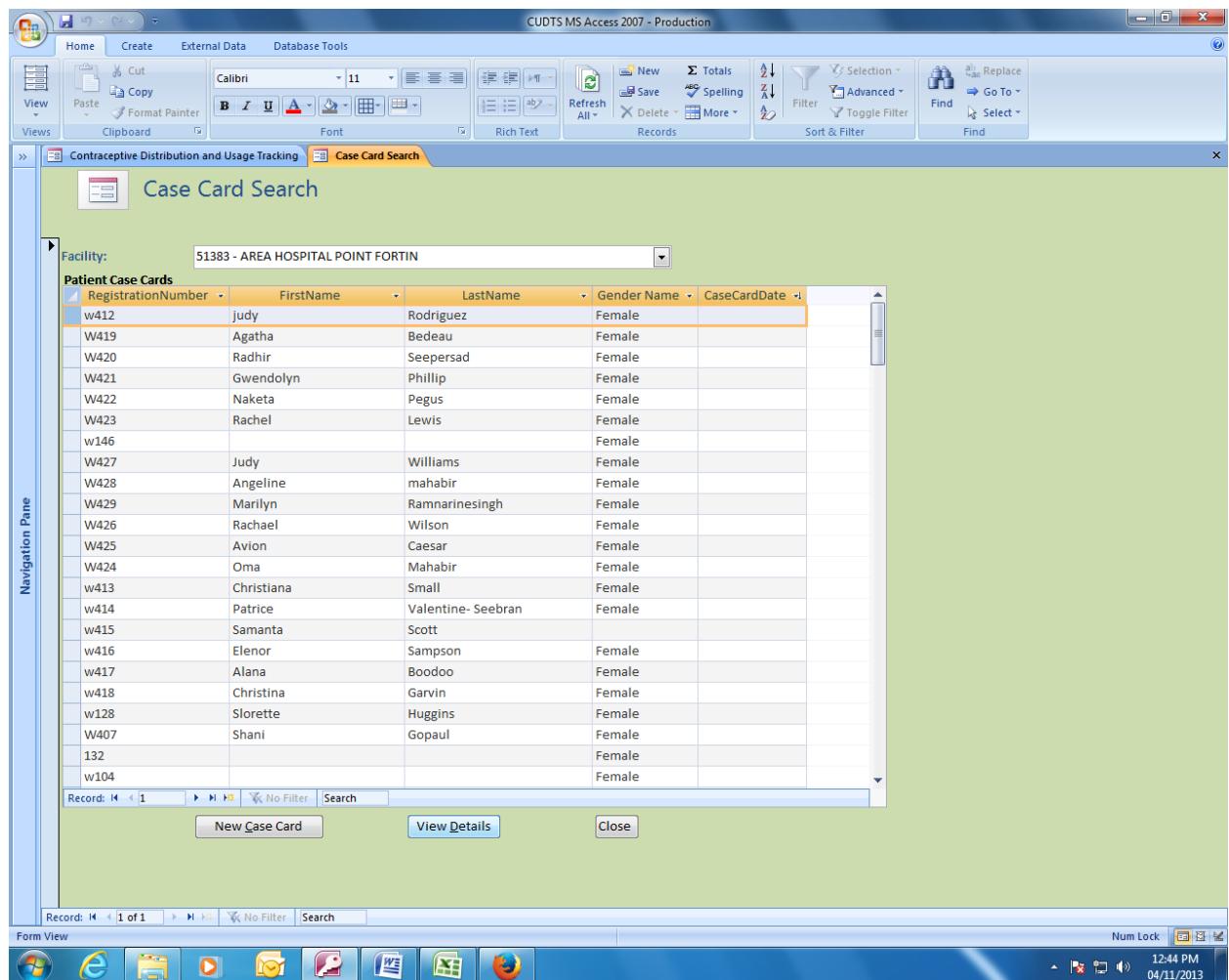


Figure 6

Here, the user is able to search for a patient record using any of the search criteria outlined below:

- RegistrationNumber
- FirstName
- LastName
- GenderName
- CaseCardDate



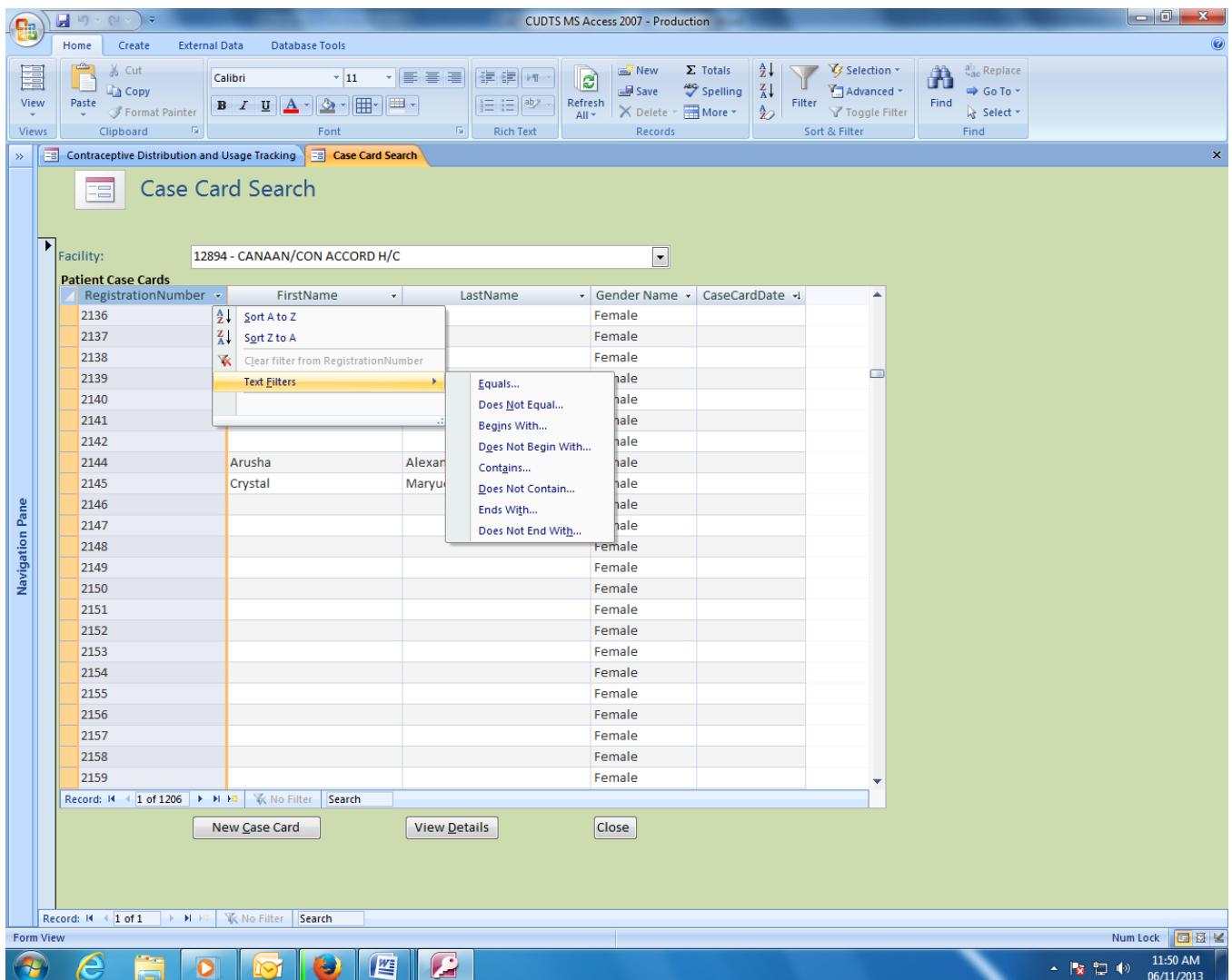
To search by RegistrationNumber, the user must select the arrow next to

Here we are going to use the RegistrationNumber to search for a patient. Select the arrow next to RegistrationNumber, select the numbers filters, the first option and the screen in **Figure 7** will appear.

**Figure 6**

### Search for Patients Case Card by RegistrationNumber Cont.....





**Figure 7**

Here we are going to use the Patient Registration Number option to search for a patient. Select the arrow next to RegistrationNumber, select the text filters, the first option and the screen in **Figure 8** will appear.



## Search for Patients Case Card by RegistrationNumber Cont.....



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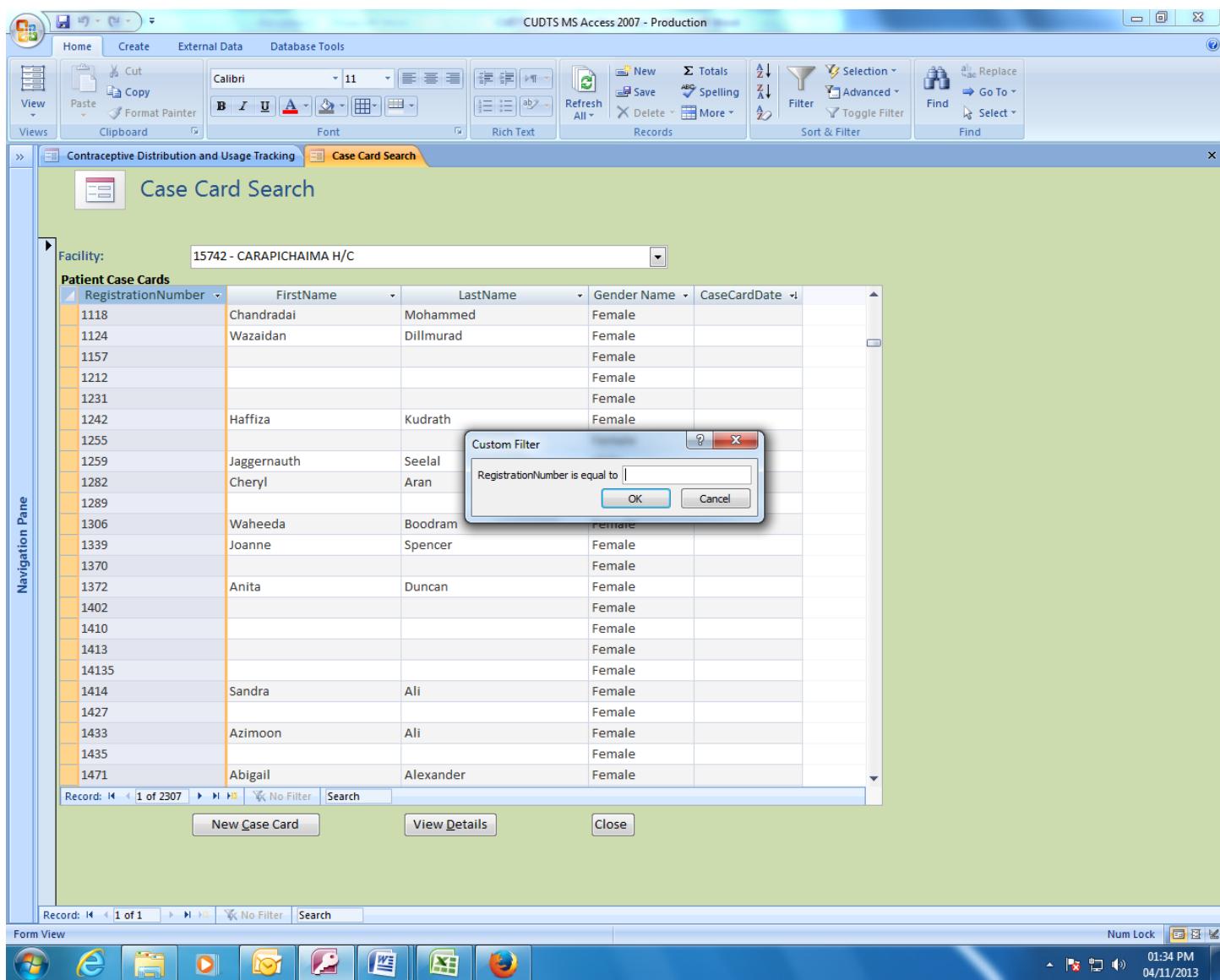
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**Figure 8**

The above screen allows the data entry clerk to input the Registration Number if known.

Select OK Button and you will be able to see and edit the patient case card.



## ***Search for Patients Case Card by FirstName***



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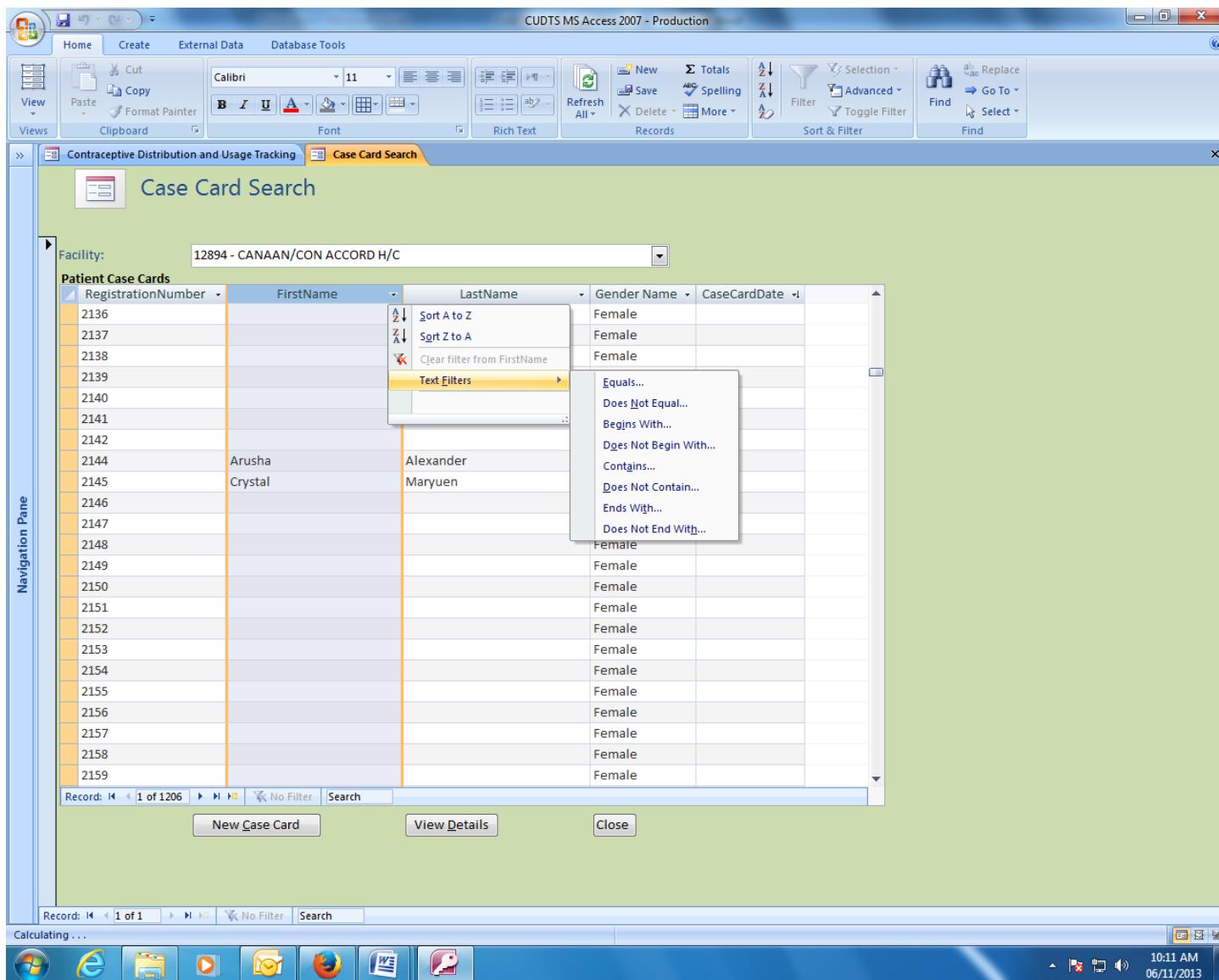
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**Figure 9**

Here we are going to use the Patient First Name option to search for a patient. Select the arrow next to FirstName, select the text filters, the first option and the screen in **Figure 10** will appear.



## ***Search for Patients Case Card by FirstName cont...***



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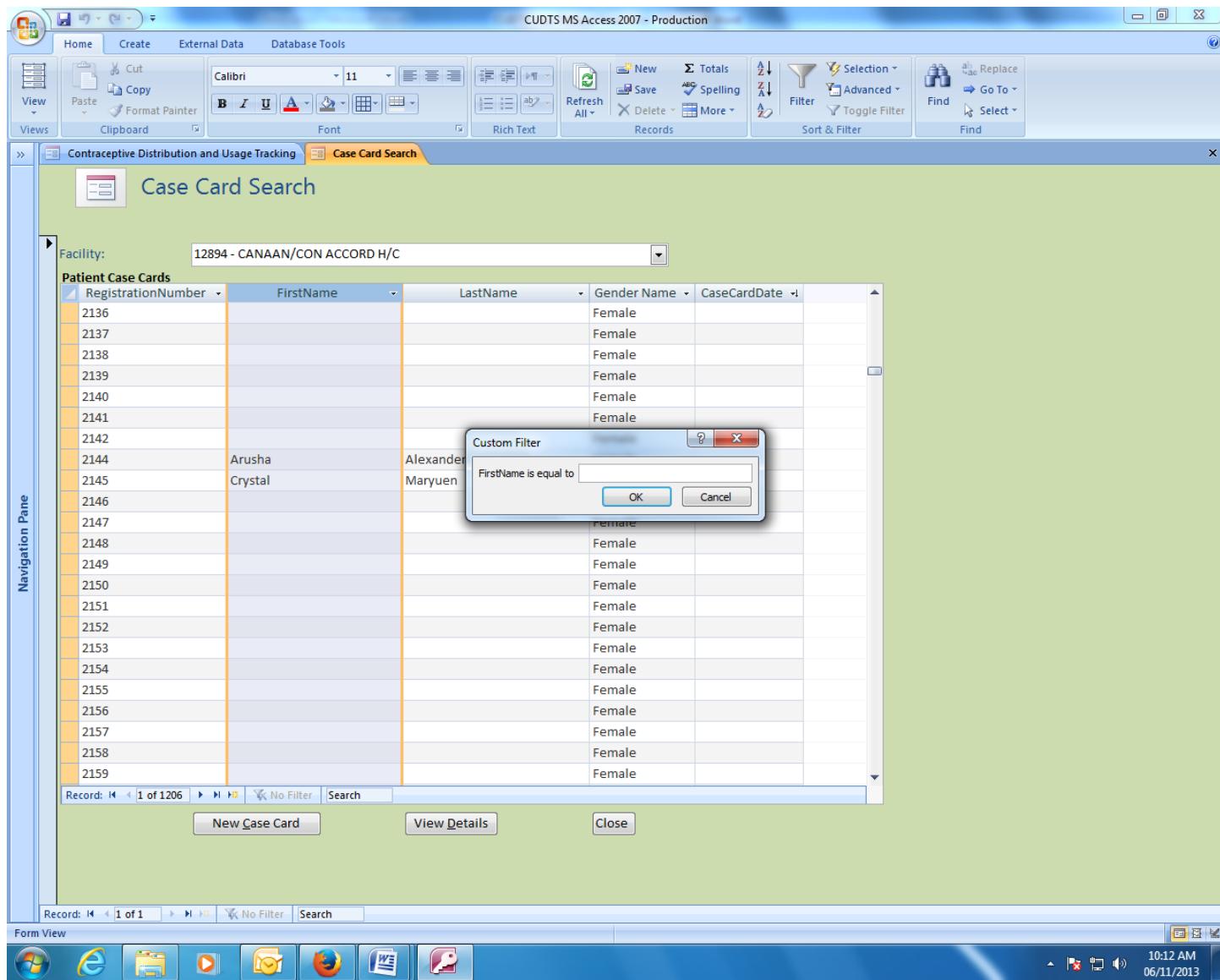
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**Figure 10**

The above screen allows the data entry clerk to input the First Name and then select OK Button and you will be able to see and edit the patient case card.



## Search for Patients Case Card by LastName



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The screenshot shows a Microsoft Access 2007 application window titled "CUDTS MS Access 2007 - Production". The main area displays a "Case Card Search" form. On the left, a navigation pane is visible. The main content area features a grid titled "Patient Case Cards" with columns: RegistrationNumber, FirstName, LastName, Gender Name, and CaseCardDate. A context menu is open over the LastName column, specifically over the cell containing "Mohammed". The menu is titled "Text Filters" and includes options such as Equals..., Does Not Equal..., Begins With..., Does Not Begin With..., Contains..., Does Not Contain..., Ends With..., and Does Not End With... . At the bottom of the grid, there are buttons for "New Case Card", "View Details", and "Close".

**Figure 11**

Here we are going to use the Patient Last Name option to search for a patient. Select the arrow next to LastName, select the text filters, the first option and the screen in **Figure 12** will appear.



## Search for Patients Case Card by LastName Cont.....

Screenshot of Microsoft Access 2007 showing a search for Patient Case Cards by LastName.

The window title is "CUDTS MS Access 2007 - Production". The ribbon tabs are Home, Create, External Data, and Database Tools. The Home tab is selected.

The main area displays a "Case Card Search" form with a grid titled "Patient Case Cards". The grid columns are: RegistrationNumber, FirstName, LastName, Gender Name, and CaseCardDate. The "Facility:" dropdown is set to "12894 - CANAAN/CON ACCORD H/C".

A "Custom Filter" dialog box is open, prompting for "LastName is equal to" with an input field and OK/Cancel buttons.

The status bar at the bottom shows "Record: 1 of 1206" and "Form View".

The taskbar at the bottom includes icons for Start, Internet Explorer, File Explorer, Media Player, Firefox, and File Explorer.

The system tray in the bottom right corner shows the date and time as "10:16 AM 06/11/2013".



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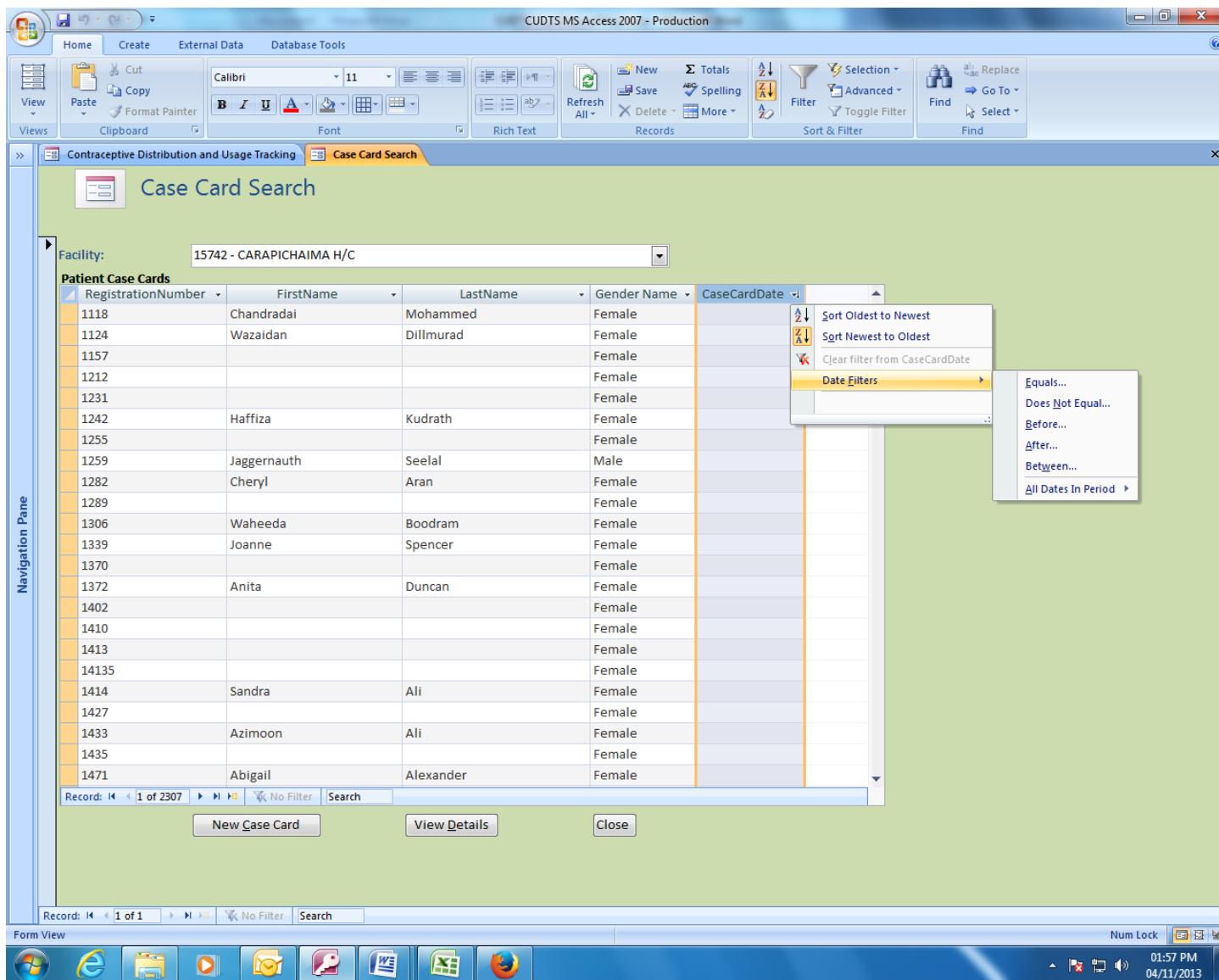
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## **Figure 12**

The above screen allows the data entry clerk to input the Last Name and then select OK Button and you will be able to see and edit the patient case card.

### **Search for Patients by CaseCardDate**





**Figure 13**

Here we are going to use the CaseCardDate option to search for a patient. Select the arrow next to CaseCardDate, select either Sort from Oldest to Newest, Sort Newest to Oldest or Date Filters the first option and the screen in **Figure 14** will appear.



## Search for Patient CaseCardDate Cont...



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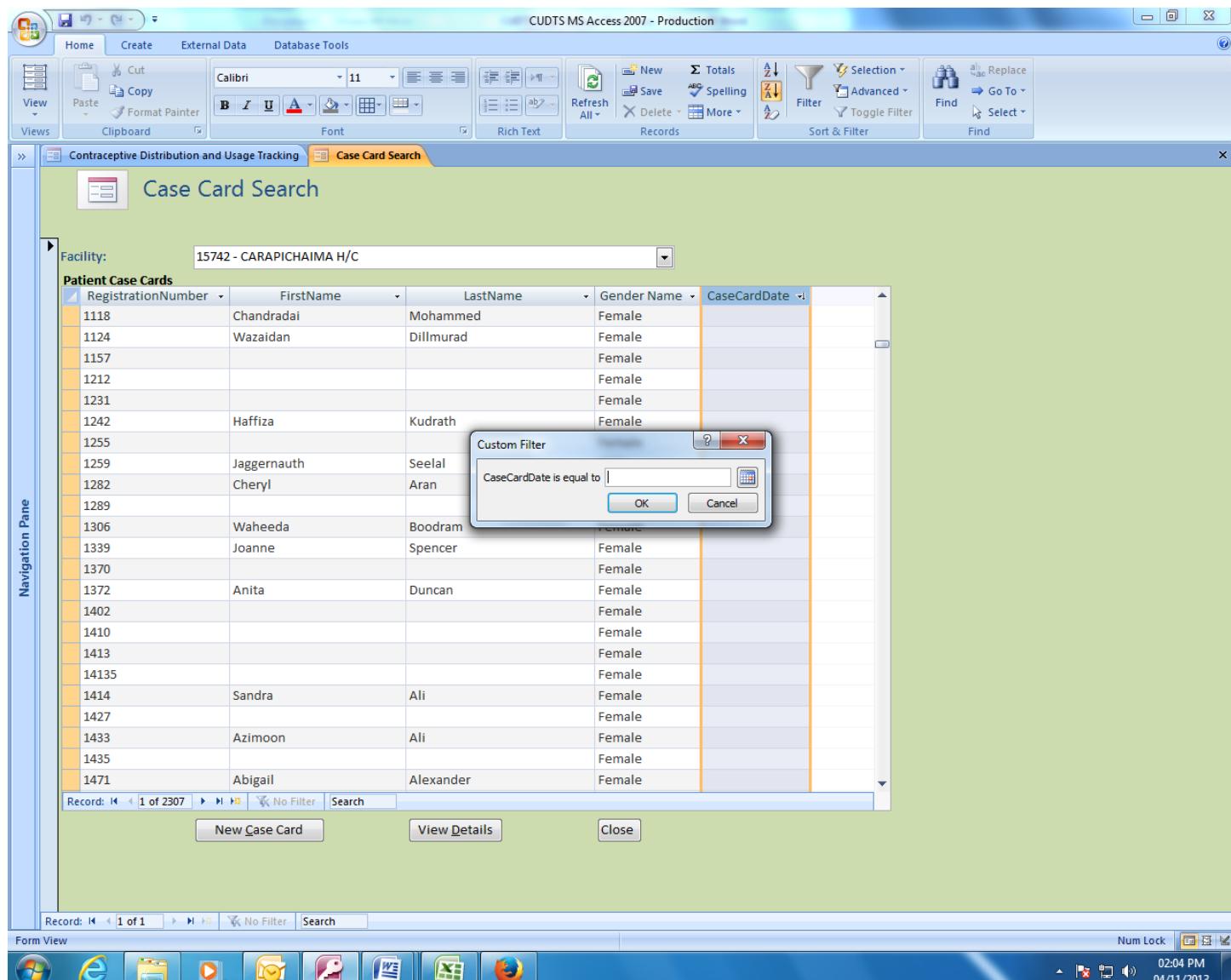
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**Figure 14**

The above screen allows the data entry clerk to input the CaseCardDate.

Select OK Button and you will be able to see and edit the patient case card.



## ***Edit Case Card***



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CUDTS MS Access 2003 - Pre-Production

Navigation Pane

Form View

Record: 1 of 1 Filtered Search

Num Lock Filtered

04:20 PM 16/08/2013

**Figure 15**

Once the patient case card is found via any of the methods suggested above the screen in **Figure 15** appears and you will be able to change any of the following patients' information.

- NationalID, Passport#, Drivers' Permit
- Registration Number
- Clinic Number
- Name of SRHS Clinic previously attended
- Former Registration Number
- Personal Information: Last Name, First Name, Address, Change of Address



- Patient Information: Age, D.O.B, Gender, Ethnic Group, Religion, Highest Level of Education Attainment, Union Status, Employment Status, House Hold Income Occurrence and Household Income Range
- What influenced you to join this clinic?
- Total number of pregnancies
- Total Number of Live Births
- Total Number of Children Alive
- Year of Last Pregnancy
- Gestation Weeks
- Outcome of Last Pregnancy, How many Children Would you like to have

***Click the "Submit" Button to save all information.***

***Click the "Close" Button to exit and return to the Case Card Screen.***



## ***Daily Register***



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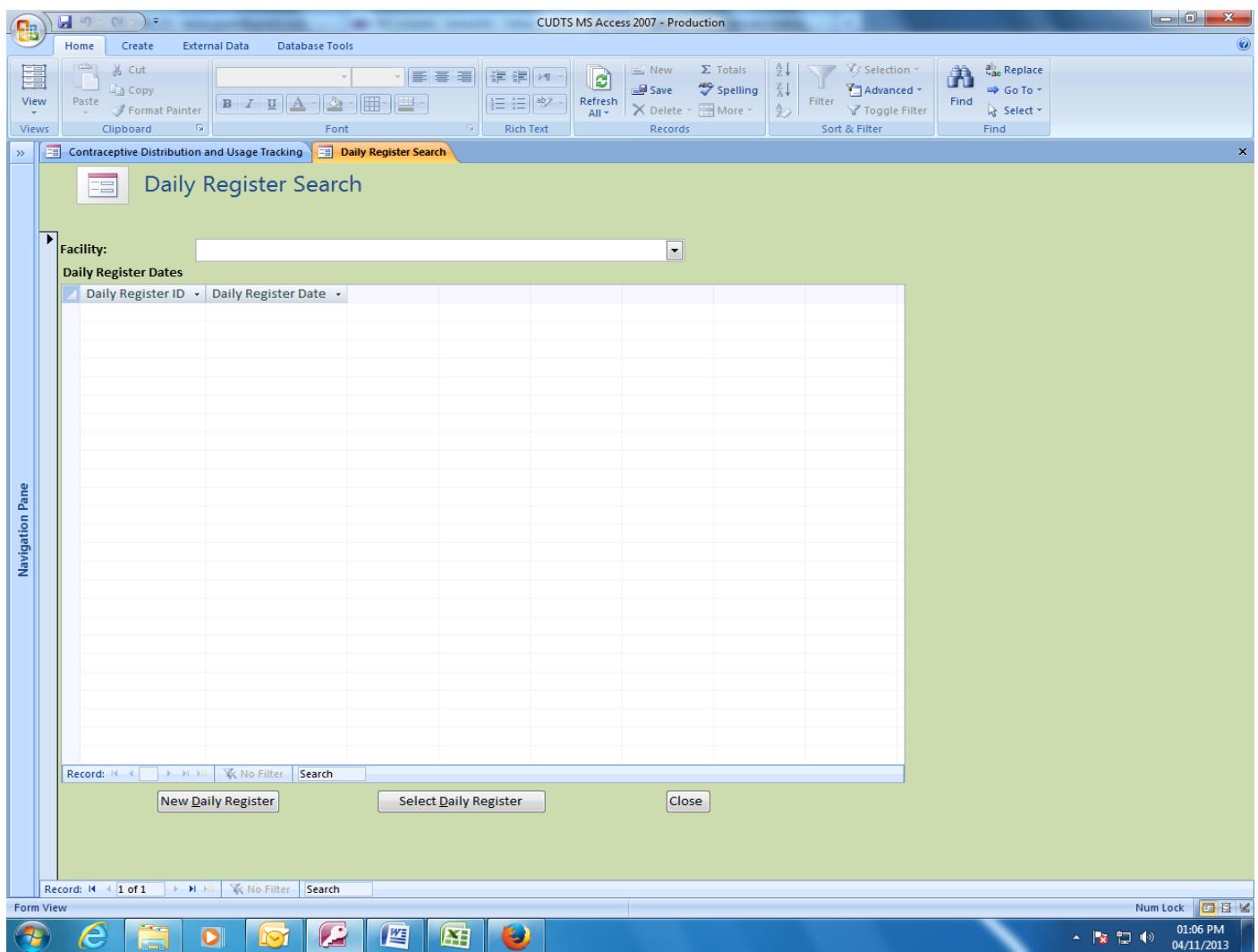
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**Figure 16**

From the form in **Figure 16** you can:

- Select a Facility
- Create a New Daily Register
- View Details of a Daily Register by Daily Register ID and Daily Register Date



## ***Add a New Daily Register***



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The screenshot shows a Microsoft Access 2007 window titled "CUDTS MS Access 2007 - Production". The main area displays the "DAILY REGISTER Data Entry" form. The form contains several input fields and dropdown menus. At the top, there are fields for "Session Date" and "Clinic Number", followed by "Submit" and "Close" buttons. Below these are sections for "Patient Search" (with fields for Registration Number and Patient Clinic Number), "Quantity issued this visit" (with fields for Patient Name, Case Type, Counselling, Pill Qty, FoamTabQty, Condom Qty, InjectionQty, and Seen By), and "IUCD Events" (with fields for IUCD Qty, IUCD Ins, and IUCD Exp). There is also a section for "Other Services" (with fields for Pap Smear Test, Pap Smear Report, Prostate Test, Prostate Rep, TL, Vasectomy, and Pregnancy Test) and an "Other" section with a text input field and a "Delete" button. At the bottom of the form, there is a record navigation bar with buttons for Record, Search, and Filter. The status bar at the bottom right shows the date and time: "01:08 PM 04/11/2013".

**Figure 17**

When you select the option New Daily Register the form in **Figure 16** appears. You 'MUST' input the date and select the Clinic Number then the "Submit" button.

You can search for all patients in the selected clinic by selecting the Patient Search Button.

This will display all the patients as in **Figure 18** for the Clinic Number that was selected on the date they were entered. You can then select which patient you want to enter information on.



You can then enter all the data into the form in relation to the patient.

When you are finished use the arrow (**>**) at the bottom of the screen next to the word Record this will save your changes and move you to the next record.

You can use the "Close" Button to exit and return to the Daily Register screen.

### ***Patient Search by Clinic***



CUDTS MS Access 2007 - Production

Home Create External Data Database Tools

View Clipboard Font Rich Text Records Sort & Filter Find Advanced Selection Filter Toggle Filter Go To Select Replace

Contraceptive Distribution and Usage Tracking Daily Register Search DAILY REGISTER Data Entry frmPatientSearch

Patient Search

Facility: 10393 - SCARBOROUGH H/C

**Patient Case Cards**

RegistrationNumber	FirstName	LastName	Gender Name	CaseCardDate
001			Female	
002			Female	
004			Female	
005			Female	
006			Female	
0062			Female	
0063			Female	
0064			Female	
0065			Female	
0067			Female	
0068			Female	
0069			Female	
0070			Female	
008			Female	
009			Female	
01009			Female	
01648			Male	
02392			Female	
03476			Female	
03512			Female	
04321			Female	
04392			Female	
04412			Female	

Record: 1 of 1 No Filter Search Select Patient Close

Record View Form View Num Lock 02:35 PM 04/11/2013

**Figure 18**

Select the patient that you want to input Information on and that patient information will be returned to the form in Figure 19.



## ***Patient Search Results***



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CUDTS MS Access 2007 - Production

Home Create External Data Database Tools

Views Clipboard Font Rich Text Refresh All New Totals Spelling Selection Advanced Filter Toggle Filter Sort & Filter Find Replace Go To Select Find

Contraceptive Distribution and Usage Tracking Daily Register Search DAILY REGISTER Data Entry

Session Date: 04-Nov-13 Clinic Number: 10393 - SCARBOROUGH H/C Submit Close

Patient Search Registration Number: 009 Patient Clinic Number: 1587

Quantity issued this visit Patient Name:

Case Type	Counselling:	Pill Qty:	FoamTabQty	Condom Qty	InjectionQty	Seen By
	2 No					

IUCD Events

IUCD Qty:	IUCD Ins:	IUCD Exp:

Other Services

Pap Smear Test:	Pap Smear Report:	Prostate Test:	Prostate Rep:	TL:	Vasectomy:	Pregnancy Test:
						3 Not Done

Other:

Record: 1 of 1 No Filter Search

Form View

**Figure 19**

In the above figure what was selected in **Figure 18** will be displayed here and you can continue putting in the information related to the client.



## ***Edit a Daily Register***



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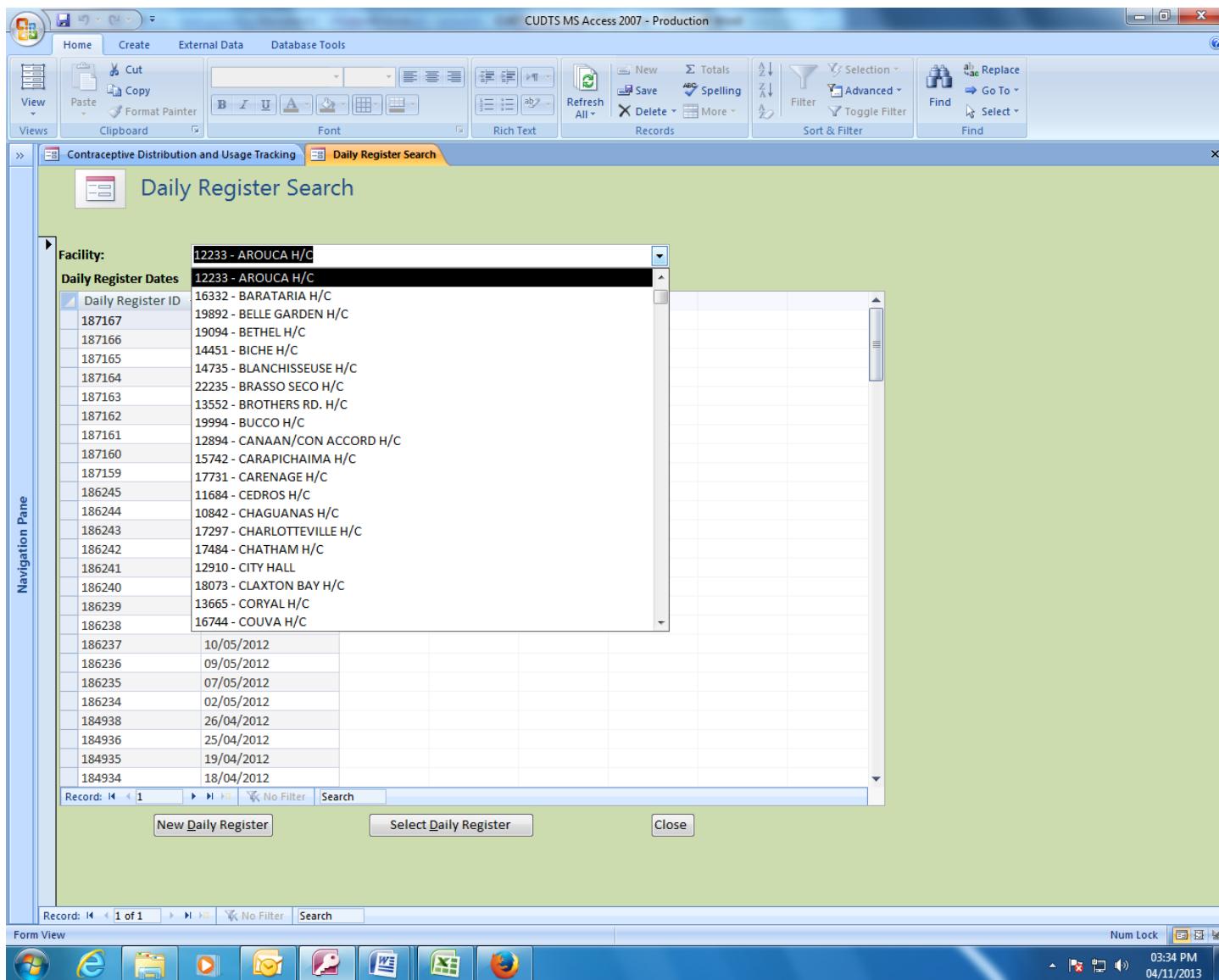
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**Figure 20**

Select the Facility that you want to edit the Daily Reregister for. Choose the Daily Register based on the DailyRegister ID and DailyRegister Date.

After you make your selection the screen in **Figure 21** appears based on your selection.





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## Edit a Daily Register Cont...

The screenshot shows a Microsoft Access 2007 window titled "CUDTS MS Access 2007 - Production". The main title bar has "Home", "Create", "External Data", and "Database Tools". The ribbon menu includes "View", "Cut", "Copy", "Format Painter", "Paste", "Clipboard", "Font", "Rich Text", "New", "Totals", "Save", "Spelling", "Delete", "More", "Refresh All", "Records", "Selection", "Advanced", "Filter", "Sort & Filter", "Replace", "Go To", "Find", and "Select". The "DAILY REGISTER Data Entry" form is open, showing fields for Session Date (09-Aug-12), Clinic Number (12233 - AROUCA H/C), Patient Search (Registration Number: 8958, Patient Name: Kimberly Young), Case Type (3 REVISIT), Counselling (2 No), Pill Qty (0), FoamTabQty (0), Condom Qty (20), InjectionQty (1), Seen By (2 NUR), IUCD Events (IUCD Qty: 0, IUCD Ins: 0, IUCD Exp: 0), Other Services (Pap Smear Test, Pap Smear Report, Prostate Test, Prostate Rep, TL, Vasectomy, Pregnancy Test), and an Other section with a text area and a "Delete" button. The status bar at the bottom shows "Record: 1 of 1", "Form View", "Filtered", "Search", "Num Lock", "04:01 PM", and "04/11/2013".

**Figure 21**

From this form you can search for a patient to edit, edit a patient's information, delete patient's information and add additional patients under the Session Date and Clinic Number. When you are finished you press Submit or select the arrow (>) at the bottom of the screen.



### ***Maintain Application List***

When you click "Maintain Application List" the following data entry form automatically opens:



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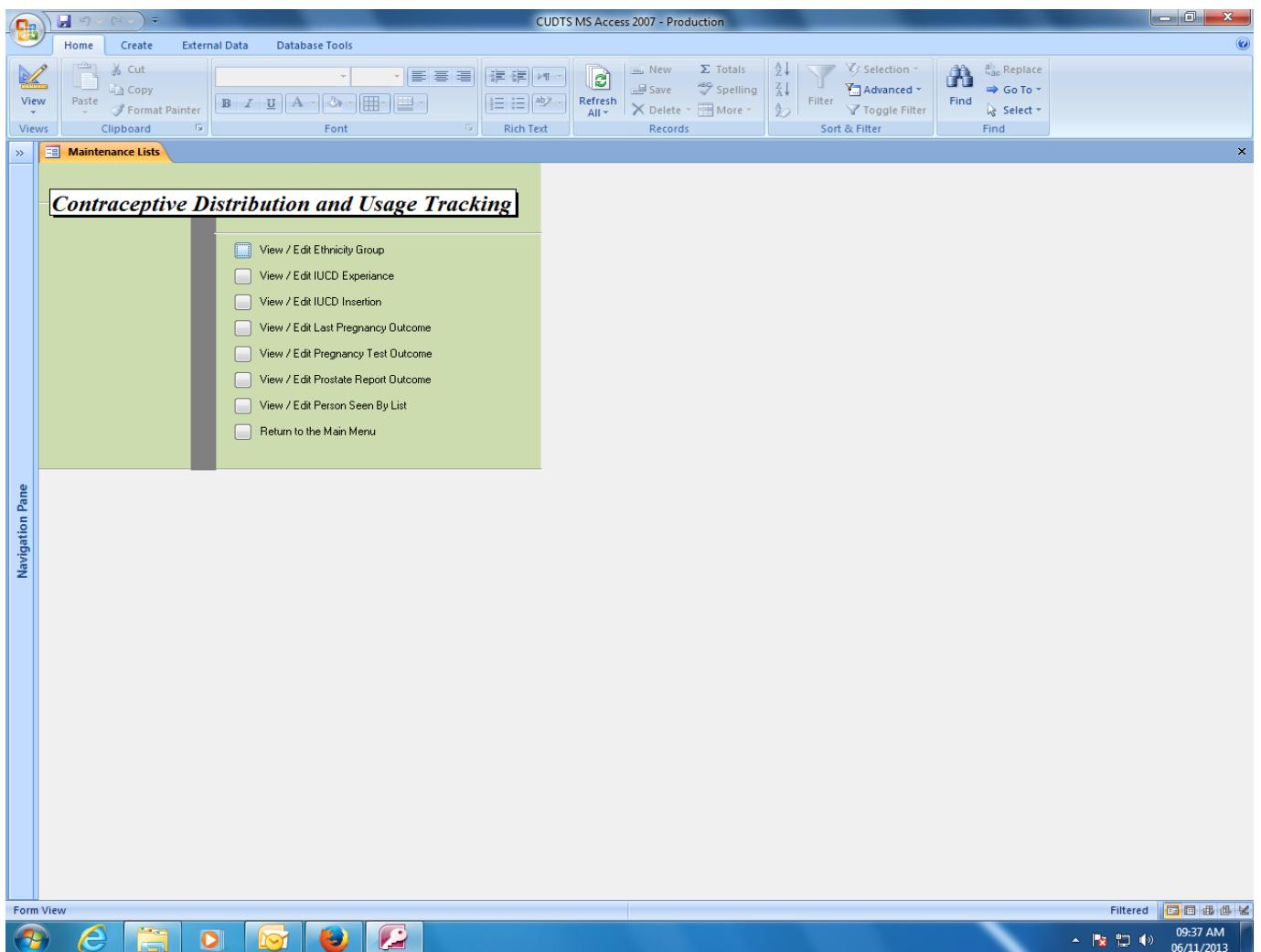
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**Figure 22**

From this screen you have the option to View/Edit any of the following:

- Ethnic Group
  - Intrauterine Contraceptive Device Experience (put the whole word)
  - Intrauterine Contraceptive Device Insertion
  - Last Pregnancy Outcome
  - Pregnancy Test Outcome
  - Prostrate Report Outcome
  - Person Seen by List
- OR
- Return To Main Menu



## ***View/Edit Ethnic Group***

When you click "View/Edit Ethnic Group" the following data entry form automatically opens:

The screenshot shows a Microsoft Access 2007 window titled "CUDTS MS Access 2007 - Production". The ribbon bar at the top includes tabs for Home, Create, External Data, and Database Tools. The Home tab is selected, displaying various toolbar icons for operations like Cut, Copy, Paste, Font, and Records. A navigation pane on the left lists "Maintenance Lists" and "Ethnicity Groupings". The main data grid is titled "Ethnicity Groupings" and contains the following data:

Code	Ethnicity
1	African Descent
2	Indian Descent
3	Mixed
4	Other
9	Not Stated

At the bottom of the form, there are buttons for "New Ethnicity Group", "View Details", "Refresh", and "Exit Form". The status bar at the bottom right shows the date and time: "09:39 AM 06/11/2013".

**Figure 23**



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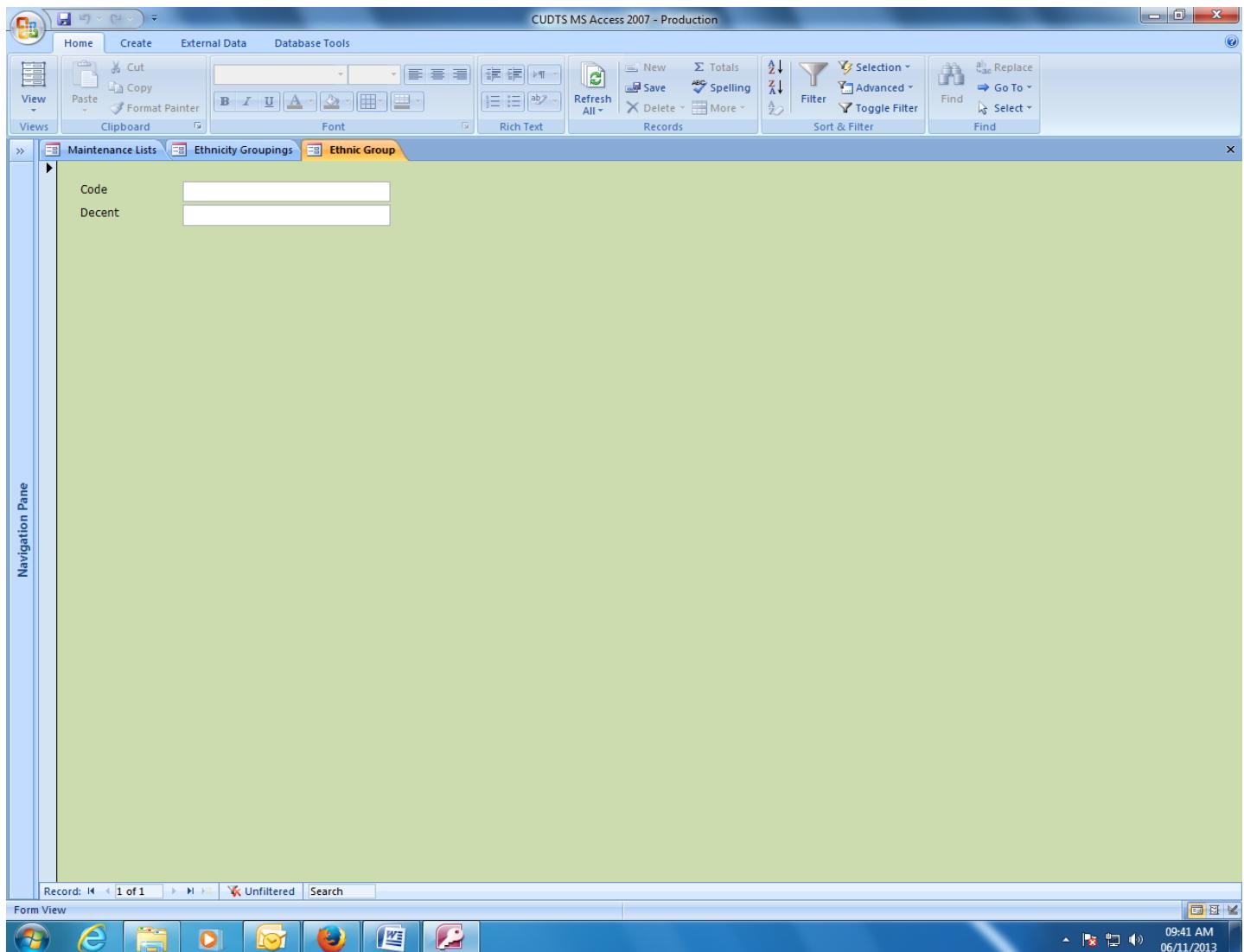
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From this screen you have the option to Add/Edit:

- New Ethnicity Group
- View Details
- Refresh
- Exit Form

## Create a New Ethnic Group



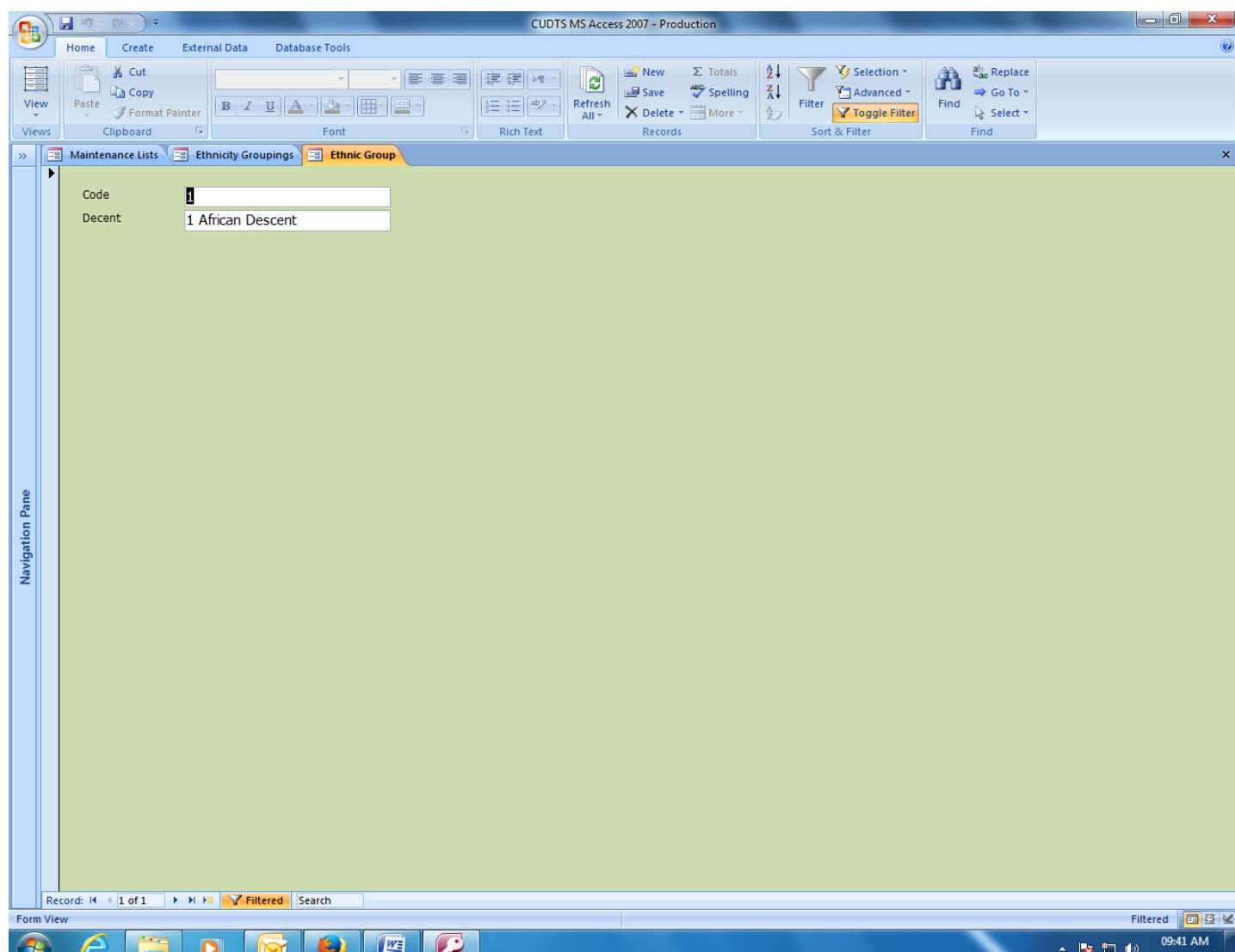


**Figure 24**

From this screen you can enter a code and new ethnic decent to create a new Ethnic Group.



## ***View Details of an Ethnic Group***



**Figure 25**



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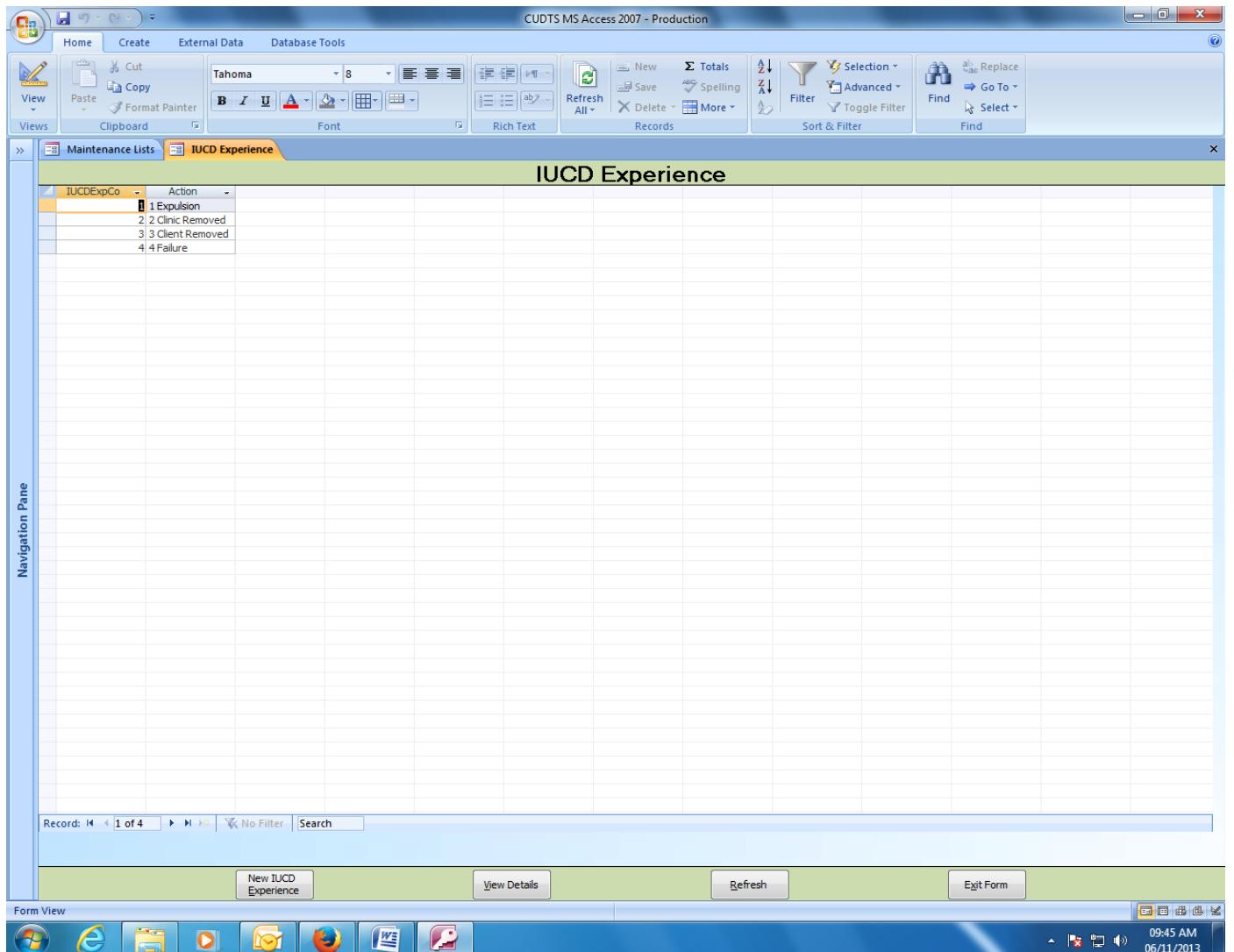


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When you select the view details option the screen above is displayed. Here users can see the code and decent for an Ethnic Group

### ***View/Add Intrauterine Contraceptive Device Experience***





**Figure 26**

When you click "View/Add IUCD Experience" the above data entry form automatically opens:

From this screen you have the option to Add/Edit:

- New Intrauterine Contraceptive Device Experience
- View Details
- Refresh



- Exit Form

## Create a New Intrauterine Contraceptive Device Experience



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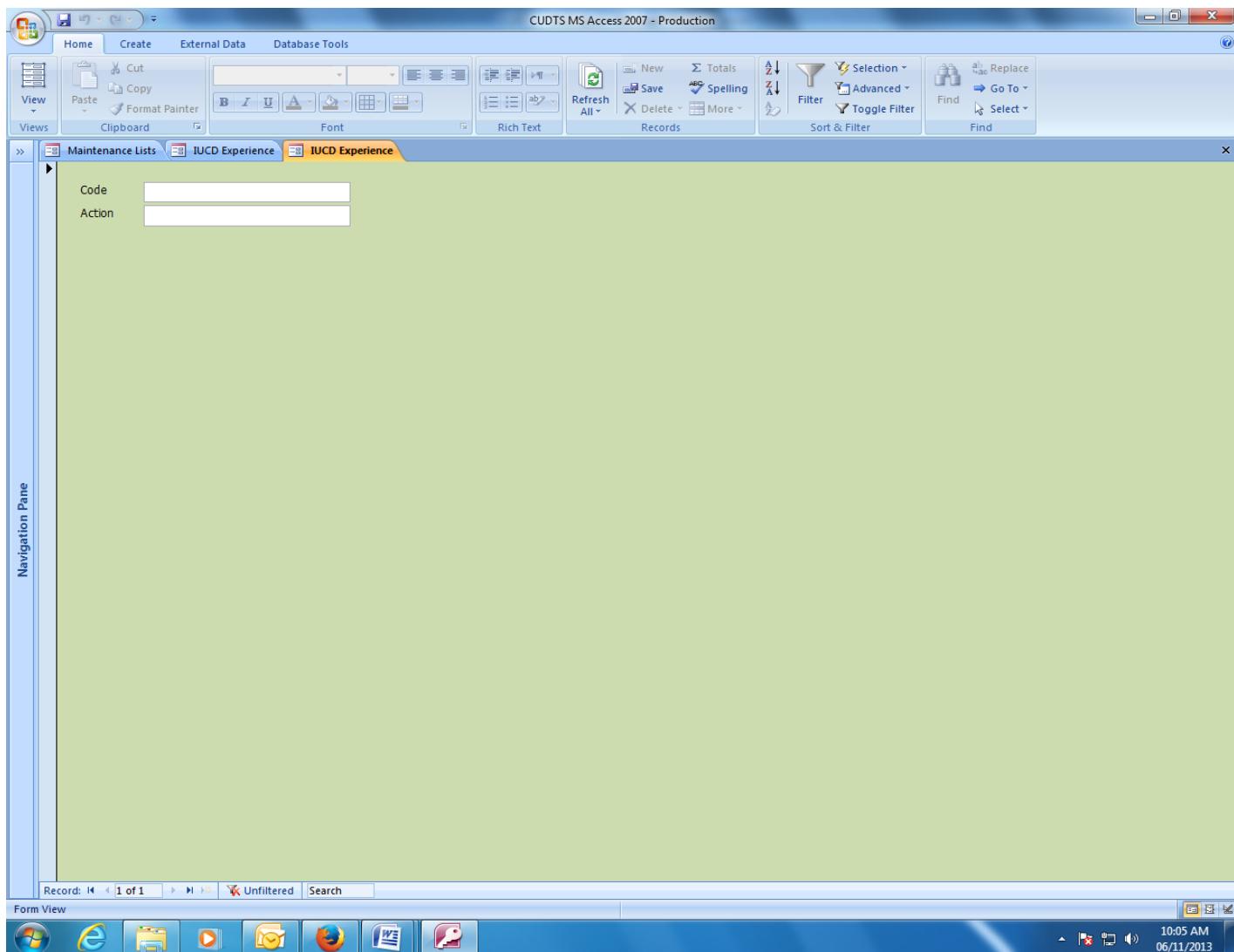
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**Figure 27**

From this screen you can enter a code and new IUCD Experience to create a new IUCD Experience.



## ***View Details of an Intrauterine Contraceptive Device Experience***



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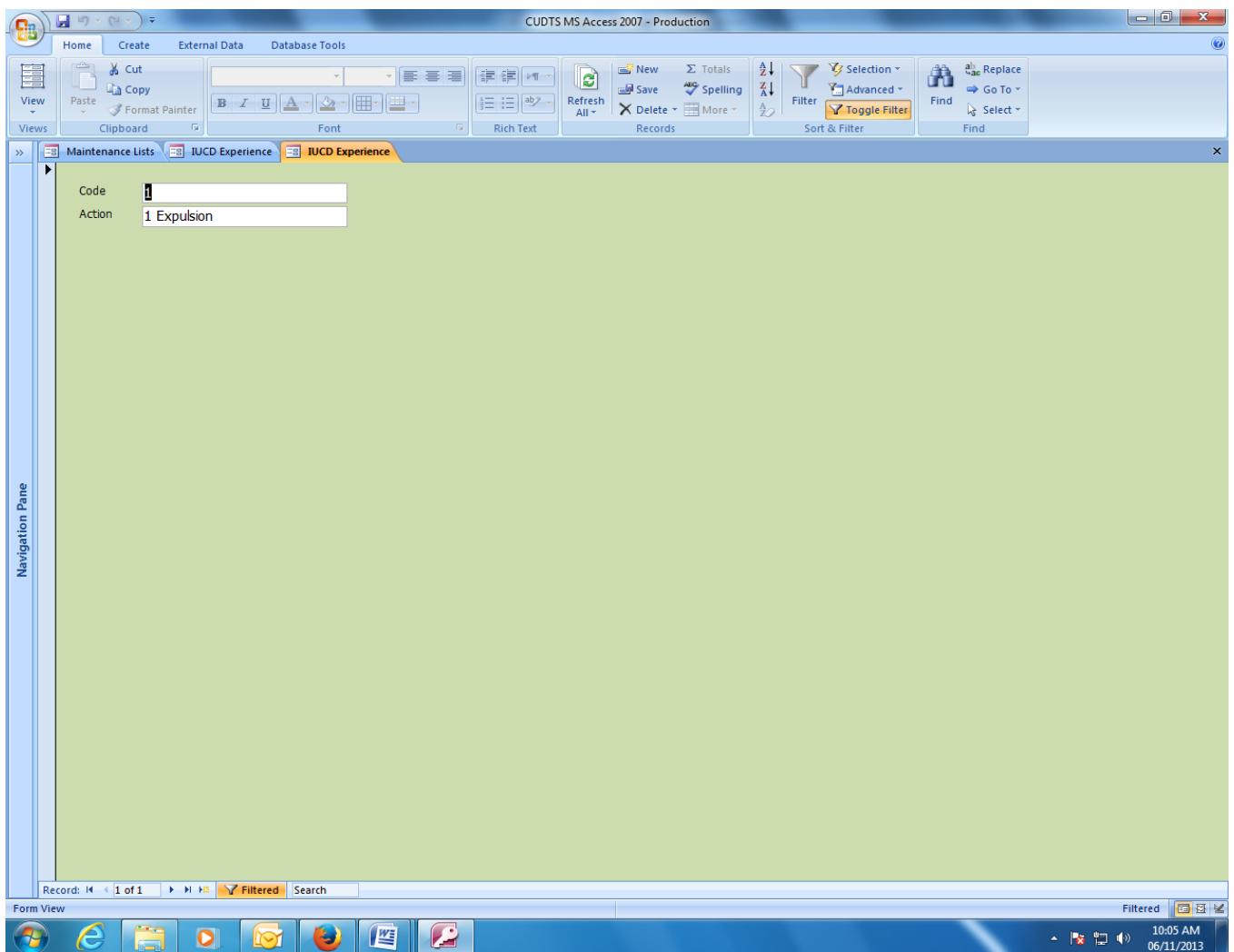
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**Figure 28**

When you select the view details option the screen above is displayed. Here users can see the code and decent for an Ethnic Group



## ***Final Word***

To exit the application close all open forms and select the "Exit Application" option or select the "Office Button" at the top left hand corner of the page and choose "Exit Access" option or select the **Red (X)** at the top right hand corner of the page.

The data fields currently captured by the CUDTS are all the information extracted from the attached forms submitted. The information is extracted by the data entry clerks. Tables are generated from the information captured in the CUDTS. These include but not limited to:  
Visits by counties  
type of visit  
Client visits by age group



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Type of service received  
Pap smears conducted  
Pap smear results  
Prostate test conducted  
Prostate results  
Educational status of clients  
Marital Status of clients  
No. of children of clients

### **PPU Statistics that have traditionally been in Annual Reports**

Number of pap smears done by County for the Period ..... .  
Number of New Clients Accessing SRH Services by County for the Period .....  
Number of Clients Accessing SRH Services by County for the Period ..... .  
Number of defaulters by County for the Period.....  
Contraceptive Commodities distributed to Counties for the Period ..... .  
Contraceptive Commodities Utilized by Counties for the Period ..... .

### **INDICATORS FROM UNFPA DOCUMENTS**

#### **Outcome 1 Indicator 1**

**Number of women adolescents and youth who have utilized integrated sexual and reproductive health services**

#### **Method of computation**

This indicator is calculated as a simple count of women adolescents and youth who have used integrated sexual and reproductive health services under the support of UNFPA.

#### **Outcome 1 Indicator 4**

**Proportion of women of reproductive age (aged 15-49 years) who have their need for family planning satisfied with modern methods**

(Sustainable Development Goal Indicator 3.7.1 and Family Planning 2020 Core Indicator No. 4)

#### **Method of computation**



**Numerator** Women of reproductive age (15-49 years old) who are currently using or whose sexual partner is currently using at least one modern contraceptive method.

**Denominator** Total demand for family planning (the sum of contraceptive prevalence (any method) and the unmet need for family planning).

**Source**

SDG Indicators Global Database

## **Outcome 1 Indicator 5**

### **Contraceptive Prevalence Rate**

**Definition**

The Contraceptive Prevalence Rate (CPR) is the proportion of sexually active women (married and unmarried) aged 15-49 who are using or whose sexual partners are using a method of contraception.

**Method of computation**

This indicator is calculated by dividing

**Numerator** the number of women aged 15 to 49 who are married or in a union who are using or whose sexual partners are using a method of contraception by

**Denominator** the total number of women aged 15 to 49 and multiplying the result by 100.

**Source** United Nations Population Division data in its World Contraceptive Use.

## **Outcome 1 Indicator 6**

### **Unmet need for family planning**

**Definition**

Unmet need for family planning is defined as the percentage of women of reproductive age either married or in a union who want to stop or delay childbearing but are not using any method of contraception.

**Method of computation**

This indicator is calculated by dividing

**Numerator** the number of women of reproductive age (15-49) who are married or in a union and who have an unmet need for family planning by

**Denominator** the total number of women of reproductive age (15-49) who are married or in a union and multiplying the result by 100.

**Source**

United Nations Population Division data in its World Contraceptive Use.



## **Outcome 1 Indicator 7**

**Number of countries reporting no contraceptive stockout in at least 60 per cent of service delivery points during the last three months**

### **Definition**

This indicator is the total number of countries where at least 60 per cent of the Service Delivery Points (SDPs) offering family planning services have experienced no stockout in the last three months as a percentage of the total number of countries for which data is available for this indicator.

### **Method of computation**

**Numerator** Number of countries where at least 60 per cent of service delivery points offering family planning services have experienced no stockout in the last three months.

**Denominator** Total number of countries for which nationally representative data for this indicator have been provided by UNFPA.

## **1.1 Number of countries that have a costed integrated national sexual and reproductive health plan prioritizing access to a comprehensive package of sexual and reproductive health information and services for adolescents key populations and marginalized groups**

### **Definition**

Number of countries that have a costed integrated national sexual and reproductive health plan with specific focus on reaching those furthest behind.

### **Method of computation**

This indicator is calculated as a simple count of those countries that have a costed integrated national sexual and reproductive health plan that includes

(a) all of the components of a comprehensive package of sexual and reproductive health information and services required across the lifespan

and (b) strategic interventions to ensure equity in access to sexual and reproductive health information and services for key populations and marginalized groups.

## **2.3 Number of countries in which at least 25 per cent of public health facilities provide quality-assured adolescent-friendly integrated sexual and reproductive health services**

### **Definition**

Number of countries in which the proportion of public health facilities that provide quality-assured adolescent-friendly integrated sexual and reproductive health services is equal to or greater than 25 per cent.

Public health facilities provide quality-assured adolescent-friendly integrated sexual and reproductive health services if they meet **all** of the eight global standards for quality health-care services for adolescents (measured by ‘input criteria’); and if they provide an essential package of at least five of the eight components of integrated sexual and reproductive health information and services.

All secondary and tertiary public health facilities are to be included in this indicator.

### **Method of computation**



This indicator is calculated as a simple count of those countries in which at least 25 per cent of public health facilities provide quality-assured adolescent-friendly integrated sexual and reproductive health services. At the country level the proportion of public health facilities providing quality-assured adolescent-friendly services is calculated by dividing

**Numerator** the total number of secondary and tertiary public health facilities in the country that provide quality-assured adolescent-friendly integrated sexual and reproductive health by

**Denominator** the total number of secondary and tertiary public health facilities.

#### **4.2 Number of countries using a functional logistics management information system including “reaching the last mile” for forecasting and monitoring essential medicines and supplies including sexual and reproductive health commodities**

##### **Definition**

The number of countries that have a paper-based or electronic system for record keeping data analysis and reporting that is used to make decisions and manage the forecasting and distribution of reproductive health commodities (contraceptives and maternal health medicines) at all levels of

service delivery especially the primary service delivery points. “Reaching the last mile” refers to the delivery of commodities to final point of utilization usually a health service delivery point (a health

center or health post) with special focus on delivering commodities to primary level service delivery points especially in hard-to-reach locations.

##### **Method of computation**

This indicator is calculated by counting the number of countries using a paper-based or electronic functional logistics management information system that is able to satisfy **all** of the following necessary functions and prerequisites at the primary service delivery point

- A. Generate information on all contraceptives (types quantities doses etc.);
- B. Generate information on essential/life-saving maternal health medicines e.g magnesium sulfate misoprostol and oxytocin;
- C. Generate inventory and monthly consumption data;
- D. Show expiry dates of all products;
- E. Provide number of users for each product;
- F. Provide stock information;
- G. Generate reports on commodity distribution and attributes;
- H. Decisions have been made and actions taken based on results generated from the system.

#### **5.1 Number of countries in which sexual and reproductive health indicators disaggregated at least by age and sex are periodically collected as part of the national health information system and made publicly available**

##### **Definition**

Number of countries that have a national health information system with disaggregated (at least by age and sex) sexual and reproductive health indicators that are publicly available and updated at least on an annual basis.

##### **Method of computation**



This indicator is calculated by counting the number of countries that have a health information system that includes at least one service coverage indicator for each of nine selected components of essential SRH services.

### **Outcome 3 Indicator 1**

**Proportion of women aged 1549- years who make their own informed decisions regarding sexual relations contraceptive use and reproductive health care**

( Sustainable Development Goal Indicator 5.6.1)

#### **Definition**

Proportion of women aged 1549- years (married or in union) who make their own decision on all three selected areas i.e. can say ‘no’ to sexual intercourse with their husband or partner if they do not want; decide on use of contraception; and decide on their own health care.

#### **Method of computation**

This indicator is calculated by dividing

**Numerator** the number of women married or in union aged 1549- years who can say “no” to sex for whom the decision on contraception is not mainly made by the husband/partner and for whom decisions on health care for themselves are not usually made by the husband/ partner or someone else by

**Denominator** the total number women

#### **Source**

SDG Indicators Global Database

## 3.0 Future State

## 4.0 Summary

## 5.0 Appendices





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## 6.0 Functional Requirements

### Ministry of Health – Health Information System - Technical Requirements

#### **Requirements Prioritization**

**M (Mandatory)** – the requirement is mandatory and non-negotiable. It is needed to satisfy identified business needs and for the solution to be considered successful.

**O (Optional)** – the requirement is desirable and flexible but not considered necessary. It can readily be changed and not affect what is required to accomplish the purpose of the mandatory requirements.

Requirement ID	Requirement Description	Priority (M/O)	Description
A	<b>General Requirements</b>		
A.1	The solution shall be a web based solution	M	
A.2	The solution shall allow internal departments in the Ministry of Health to access the system	M	This will comprise of Departments/Vertical Sites/Special Programmes connected to the MoH Domain



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Requirement ID	Requirement Description	Priority (M/O)	Description
A.3	The solution shall allow for a maximum of () concurrent users	M	
A.4	The Solution shall allow for only authorized Users to Login the system using their User Name and Password	M	
A.5	System shall have the ability to Authenticate User Login Credentials	M	
A.6	The solution shall allow a User to, Search, View, Create, Edit, Send and Receive an Item based on User Access Level	M	
A.7	The solution shall allow a user his/her department view based on login credentials	M	
A.8	The Solution shall allow for different access levels of a User	M	<p>View List: To see the existence of an Item and its general information.</p> <p>View Details: To see all information of an Item</p> <p>Create: To create a new Item</p> <p>Edit: To make changes to an Item</p>



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Requirement ID	Requirement Description	Priority (M/O)	Description
A.9	The solution shall have the ability to validate Items	<b>M</b>	
A.10	The solution shall have a display bar for alerts with a count of certain action require for an Item	<b>M</b>	
A.11	The Solution shall allow for Question and Answer and User Manual	<b>O</b>	
A.12	The solution shall allow for the categorization of correspondence and file Items	<b>M</b>	Categories: Correspondence/File
A.13	The solution shall allow for a unique identification for a Correspondence/File Item		All Sending/Receiving correspondence relating to a department/vertical site/special programme unit/Other would be given a unique identifier for e.g NOTUC01ddmmyy
A.14	The solution shall allow for the capture of all relevant details on Sending/Receiving of Correspondence/File	<b>M</b>	See Appendices 3 and 6 for the list of current fields being captured
A.15	The solution shall allow for all data to be stored in a single repository	<b>M</b>	
A.16	The solution shall allow for the user to track the status of a Correspondence/File Item	<b>M</b>	E.g. In Progress, Pending, Completed, Returned, In Transit



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Requirement ID	Requirement Description	Priority (M/O)	Description
A.17	The solution shall allow a user to view all current and historic records of a Correspondence/File Item	M	
A.18	The solution shall allow for an automatic notification to be sent to the Recipient when a Correspondence Item or File Item has been sent	M	This is to be in the form of an email
A.19	The solution shall allow for the Recipient to Cancel a notification when the physical Correspondence/File is received.	M	
A.20	The solution shall allow for the Recipient to send Recipient Receive Notification to the original Sender	M	This is to be in the form of an email
A.21	The solution shall send an automatic alert to the sender indicating correspondence/file has been received by the department it was dispatched.	M	This is to be in the form of an email
A.22	An automatic notification to be sent to the original Sender of a Correspondence Item/File Item sent without a notification informing that the Item is no longer in their possession and they need to confirm	M	This is to be in the form of an email



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Requirement ID	Requirement Description	Priority (M/O)	Description
A.23	The solution shall allow for an authorized User of a Department/Unit/Section the ability to track the status of a Correspondence/File Item sent	M	
A.24	The solution shall allow for the user to generate various reports		
A.25	The solution shall prompt a User to continue or end a session when the solution is idle for more than 15 minutes. If there is no response the system solution shall disconnect the session after 30 seconds	M	
<b>B</b>	<b>Database Requirements</b>		
B.1			
<b>AB</b>	<b>Usability</b>		
AB.1	The solution shall allow user to be able to use the system productively with minimal or no training	M	
<b>AC</b>	<b>Backup and Recovery</b>		
AC.1	The solution shall provide automated back-up and recovery procedures	M	
AC.2	The solution shall allow the administrator to schedule back-up routines	M	



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Requirement ID	Requirement Description	Priority (M/O)	Description
AC.3	The solution shall allow administrators to perform manual backup	M	
AC.4	The solution shall allow the administrator to restore back-ups	M	
AC.5	The solution shall allow for transaction based recovery	O	
AC.6	The solution shall report on any errors encountered during a restore or rebuild	M	
AC.7	The solution shall allow the administrator to perform an integrity check of any data updates that were unable to be recovered or rebuilt	M	
AC.8	The solution shall support file compression to facilitate access from slow connections	M	
AC.9	The solution shall provide plain English error messages, which include description of error and the required action	M	
AC.10	The solution shall allow administrators to specify a default location for remote backups and a default location for on-site backup	M	



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Requirement ID	Requirement Description	Priority (M/O)	Description
AC.11	The solution shall allow for scheduling of backups to external hardware	M	
AD	<b>Maintainability</b>		
AD.1	The solution shall have a standardized design and implementation documents shall be provided in order to maintain the system	M	
AD.2	The solution shall have a standard modular architecture that will be applied and therefore the system should be easily expandable, allowing for quick evolution of the software to adapt to possible situations in the future	M	
AD.3	The solution shall have the ability to update the system software automatically via the web	M	
AD.4	The solution shall be available at all times (12 hours a day, 7 days a week) except for monthly maintenance?	M	
AD.5	The solution shall support a centralized repository of user information which eliminates the need to maintain this data on multiple systems	M	



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