

NAME: MANSI BHAT (MCA – II)

INCUBYTE - DATA ENGINEER TECHNICAL ASSESSMENT

1) Create table Queries

- Firstly created database Schema in MySql Workbench 8.0 and then
CREATE TABLE CUSTOMER_DETAILS

```
create table Customer_details (
```

```
Customer_name    varchar(255) NOT NULL PRIMARY KEY ,
```

```
Customer_id      varchar(18)  NOT NULL ,
```

```
Customer_open_date date      NOT NULL ,
```

```
Last_consulted_date date,
```

```
Vaccination_type char(5),
```

```
Doctor_consulted char(255),
```

```
State            char(5),
```

```
Country          char(5),
```

```
Post_code        int,
```

```
Date_of_birth    date,
```

```
Active_customer  char(1)
```

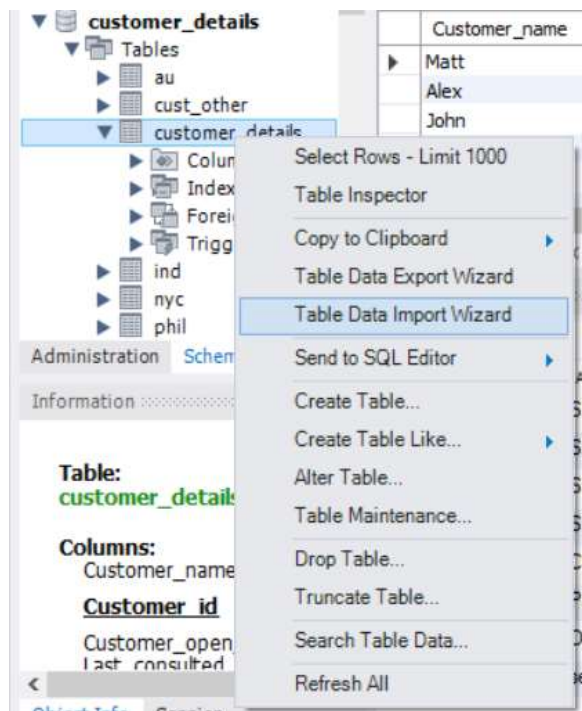
```
);
```

Select * from Customer_details;

```
Customer_name  Customer_id  Customer_open_date  Last_consulted_date  Vaccination_type
```

```
Doctor_consulted  State  Country  Post_code  Date_of_birth  Active_customer
```

- IMPORT data from file through import wizard



SELECT * FROM Customer_details;

Customer_name	Customer_id	Customer_open_date	Last_consulted_date	Vaccination_type
Matt	12345	10/12/2010	10/13/2012	MVD
Alex	123457	10/12/2010	10/13/2012	MVD
John	123458	10/12/2010	10/13/2012	MVD
Mathew	123459	10/12/2010	10/13/2012	MVD
Jacob	1256	10/12/2010	10/13/2012	MVD

Doctor_consulted	State	Country	Post_code	Date_of_birth	Active_customer
Paul	BOS	NYC	87100	06/03/1987	A
Paul	SA	USA	12456	06/03/1987	A
Paul	TN	IND	34123	06/03/1987	A
Paul	WAS	PHIL	34901	06/03/1987	A
Paul	VIC	AU	19021	06/03/1987	A

Data imported

- Create Tables for different Countries.

1) create table NYC (

```
Customer_name    varchar(255) NOT NULL PRIMARY KEY ,
Customer_id      varchar(18)  NOT NULL ,
Customer_open_date date      NOT NULL ,
Last_consulted_date date,
Vaccination_type char(5),
Doctor_consulted char(255),
State            char(5),
Country          char(5),
Post_code        int,
Date_of_birth    date,
Active_customer  char(1)
);
```

2) create table USA (

```
Customer_name    varchar(255) NOT NULL PRIMARY KEY ,
Customer_id      varchar(18)  NOT NULL ,
Customer_open_date date      NOT NULL ,
Last_consulted_date date,
Vaccination_type char(5),
Doctor_consulted char(255),
```

```
State          char(5),
Country        char(5),
Post_code      int,
Date_of_birth  double,
Active_customer char(1)
);
```

3) create table IND (

```
Customer_name  varchar(255) NOT NULL PRIMARY KEY ,
Customer_id    varchar(18)  NOT NULL ,
Customer_open_date date     NOT NULL ,
Last_consulted_date date,
Vaccination_type char(5),
Doctor_consulted char(255),
State          char(5),
Country        char(5),
Post_code      int,
Date_of_birth  date,
Active_customer char(1)
);
```

4) create table PHIL (

```
Customer_name  varchar(255) NOT NULL PRIMARY KEY ,
Customer_id    varchar(18)  NOT NULL ,
```

```

Customer_open_date date      NOT NULL ,
Last_consulted_date date,
Vaccination_type char(5),
Doctor_consulted char(255),
State char(5),
Country char(5),
Post_code int,
Date_of_birth date,
Active_customer char(1)
);

```

5) create table AU (

```

Customer_name varchar(255) NOT NULL PRIMARY KEY ,
Customer_id varchar(18) NOT NULL ,
Customer_open_date date NOT NULL ,
Last_consulted_date date,
Vaccination_type char(5),
Doctor_consulted char(255),
State char(5),
Country char(5),
Post_code int,
Date_of_birth date,
Active_customer char(1)
);

```

- Filter the record countrywise and store them in the table named as country name

1) FOR COUNTRY = NYC

INSERT INTO NYC

(Customer_name, Customer_id, Customer_open_date, Last_consulted_date, Vaccination_type, Doctor_consulted, State, Country, Post_code, Date_of_birth, Active_customer)

SELECT * FROM customer_details where Country ="NYC";

SELECT * FROM NYC;

Customer_name	Customer_id	Customer_open_date	Last_consulted_date	Vaccination_type
Matt	12345	10/12/2010	10/13/2012	MVD

Doctor_consulted	State	Country	Post_code	Date_of_birth	Active_customer
Paul	BOS	NYC	87100	06/03/1987	A

2) FOR COUNTRY = USA

INSERT INTO USA

(Customer_name, Customer_id, Customer_open_date, Last_consulted_date, Vaccination_type, Doctor_consulted, State, Country, Post_code, Date_of_birth, Active_customer)

SELECT * FROM customer_details where Country ="USA";

SELECT * FROM USA;

Customer_name	Customer_id	Customer_open_date	Last_consulted_date	Vaccination_type
Alex	123457	10/12/2010	10/13/2012	MVD

Doctor_consulted	State	Country	Post_code	Date_of_birth	Active_customer
Paul	SA	USA	12456	06/03/1987	A

3) FOR COUNTRY = IND

INSERT INTO IND

(Customer_name, Customer_id, Customer_open_date, Last_consulted_date, Vaccination_type, Doctor_consulted, State, Country, Post_code, Date_of_birth, Active_customer)

SELECT * FROM customer_details where Country ="IND";

SELECT * FROM IND;

Customer_name	Customer_id	Customer_open_date	Last_consulted_date	Vaccination_type
John	123458	10/12/2010	10/13/2012	MVD

Doctor_consulted	State	Country	Post_code	Date_of_birth	Active_customer
Paul	TN	IND	34123	06/03/1987	A

4) FOR COUNTRY= PHIL

INSERT INTO PHIL

(Customer_name, Customer_id, Customer_open_date, Last_consulted_date, Vaccination_type, Doctor_consulted, State, Country, Post_code, Date_of_birth, Active_customer)

SELECT * FROM customer_details where Country ="PHIL";

SELECT * FROM PHIL;

Customer_name	Customer_id	Customer_open_date	Last_consulted_date	Vaccination_type
Mathew	123459	10/12/2010	10/13/2012	MVD

Doctor_consulted	State	Country	Post_code	Date_of_birth	Active_customer
Paul	WAS	PHIL	34901	06/03/1987	A

5) FOR COUNTRY = AU

INSERT INTO AU

(Customer_name, Customer_id, Customer_open_date, Last_consulted_date, Vaccination_type, Doctor_consulted, State, Country, Post_code, Date_of_birth, Active_customer)

SELECT * FROM customer_details where Country ="AU";

SELECT * FROM AU;

Customer_name	Customer_id	Customer_open_date	Last_consulted_date	Vaccination_type
Jacob	1256	10/12/2010	10/13/2012	MVD

Doctor_consulted	State	Country	Post_code	Date_of_birth	Active_customer
Paul	VIC	AU	19021	06/03/1987	A

This way we loaded the data into different country tables which further developers can use.

2) Read data from file

One way we read the file by importing it into table and then query the table.

Example : select * from customer_details;

Other way we can read data from file is by using pandas library in python.

```
import pandas as pd
```

```
df = pd.read_csv("/content/sample_data/cust.csv",  
skiprows = 1)
```

```
print(df)
```


OUTPUT :

```
Alex|123457|20101012|20121013|MVD|Paul|SA|USA|12456|
John|123458|20101012|20121013|MVD|Paul|TN|IND|...
Mathew|123459|20101012|20121013|MVD|Paul|WAS|P...
Matt|12345|20101012|20121013|MVD|Paul|BOS|NYC|...
Jacob|1256|20101012|20121013|MVD|Paul|VIC|AU|1...
```
