Module 1: SQL Server

1. Perform the normalization

- a) Create tables as per normalization
- b) Insert the data
- c) Join the table
- d) Create different views

Scenario:

Healthcare domain:

Multiple patients visiting hospitals located in multiple cities, for check up and treatment, multiple doctors treating patients belong to specific department advising routine checkups(ex: Xray, Sugar test, urine test, MRI etc) and further drugs(medicines) for the disease identified.

Answer

Created three tables as per the normalization that is hospital, Docotor and patient. Below snapshot shows the query for creatinf tables

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    ----Fianl assesment---
    ---- Creating tables as per normalization for Healthcare domain:----
    create table Hospital
    Hospital_city varchar(50),
     Hospital_Adress varchar(50),
     Department id int primary key,
    create table Doctors
     Doctor_id int primary key,
     Doctor_Name varchar(50),
     Department_id int,
     Doctor_Mobile_Number bigint
     create table patient
     Patient_Id int primary key,
     Patient_Name varchar(50),
     Patient_Address varchar(50).
     Disease_Identified varchar(50),
    Doctor_id int,
     patient_Mobile_Number bigint
```

After creating the table, inserted the data into the Hospital tables.

Below snapshot shows the inserting data in to the hospital tables

```
insert into Hospital values ('manglore', 'stateBank',101),

('manglore', 'mainroad',103),

('banglore', 'Rajajinagar',102),

('banglore', 'Rajajinagar',105),

('Udupi', 'kundapur',107),

('banglore', 'iganagar',121),

('banglore', 'iganagar',121),

('banglore', 'jaynagar',141),

('bijapur', 'ramnagar',151),

('Shimoga', 'Badravath',171),

('manglore', 'moodbidre',131),

('Belgavi', Jaynagar',161),

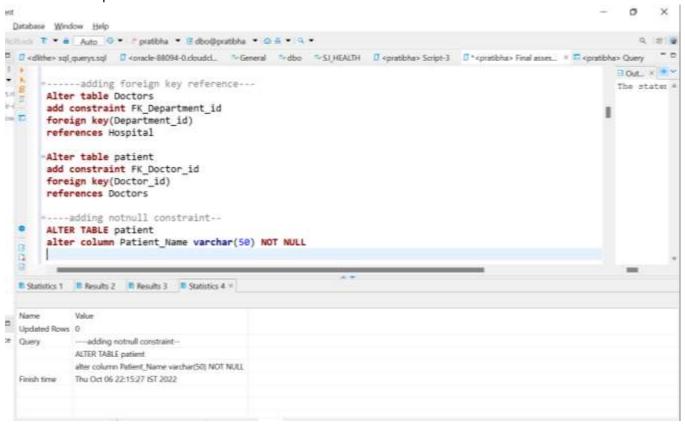
('Hubbali', '2nd cross',198),

('Bagalkot', 'jamkhandi',134),

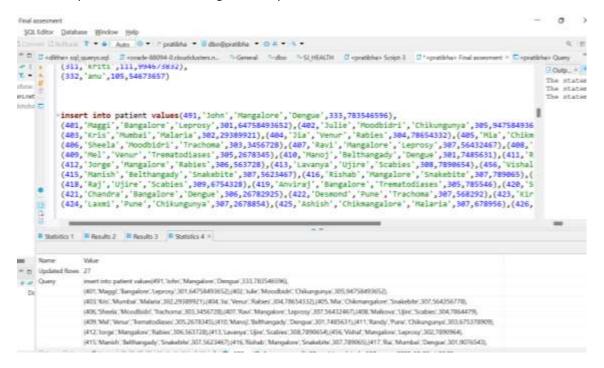
('banglore', 'yashwanthpura',144)

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Below snapshot shows adding foreign key reference to the existing table by using alter tabale command For doctors and patient table

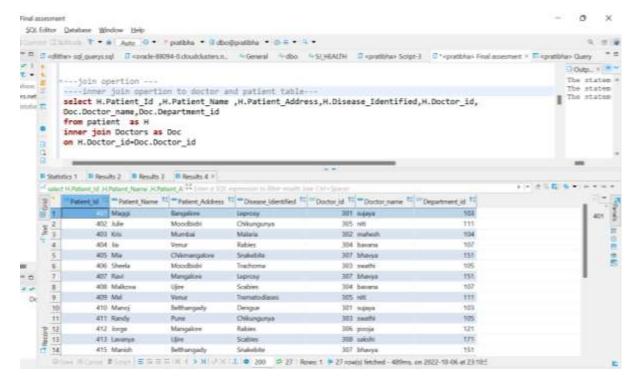


Below snapshot is for the inserting data for patient table

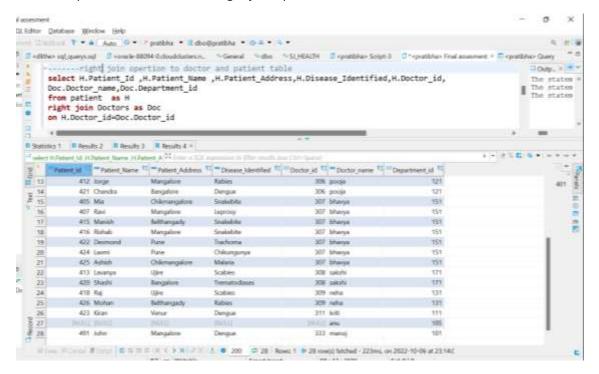


Performing join opertion for Doctor and Patient tables

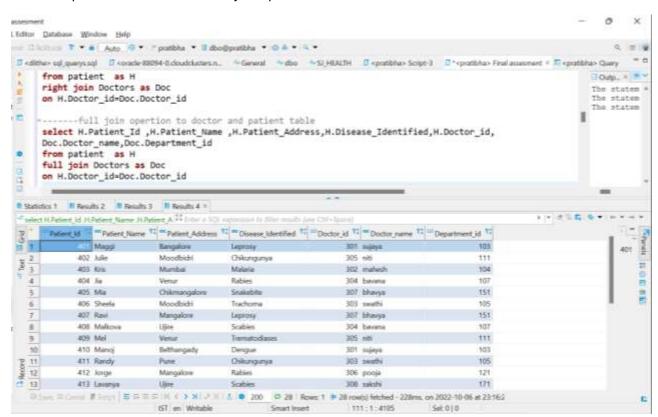
Below snapshot shows the result inner join oprtion



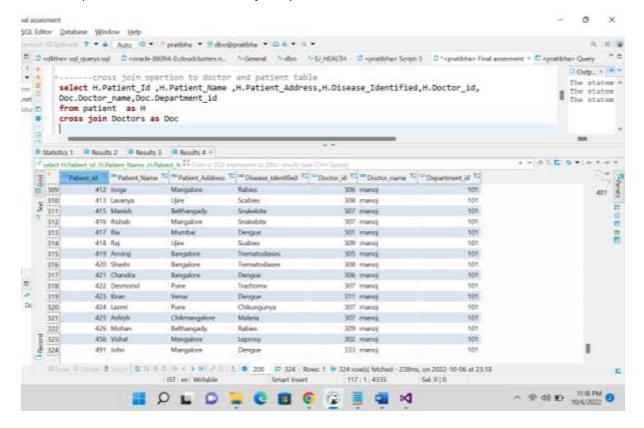
Below snapshot shows the result Right join oprtion



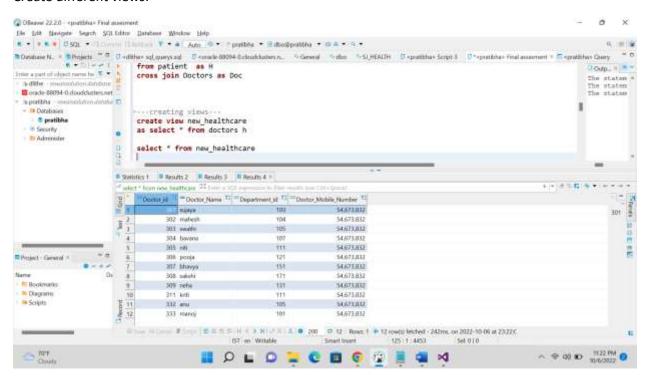
Below snapshot shows the result Full join oprtion



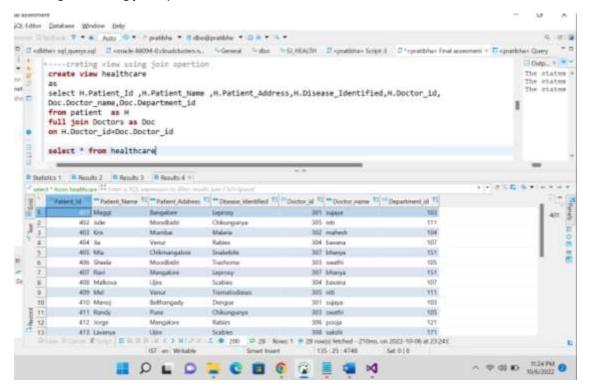
Below snapshot shows the result Cross join oprtion

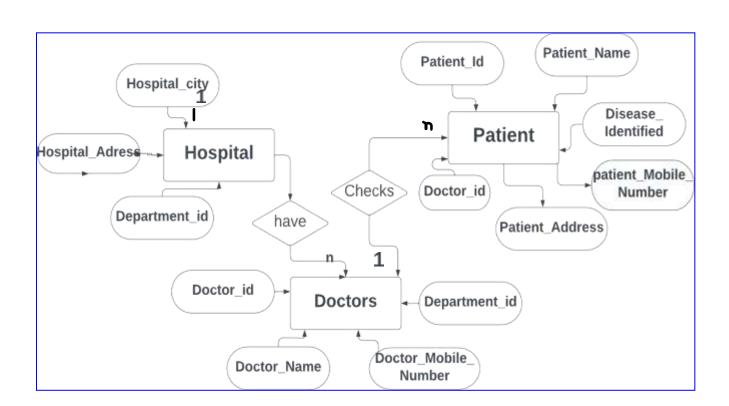


Create different views:



Creating view using join opertion

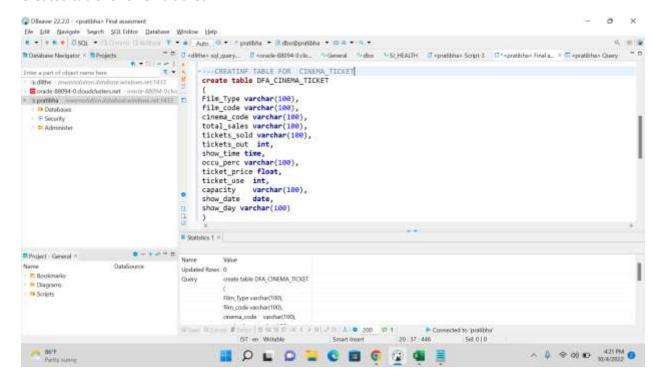




2. Using transaction table perform various operations (DDL,DML)

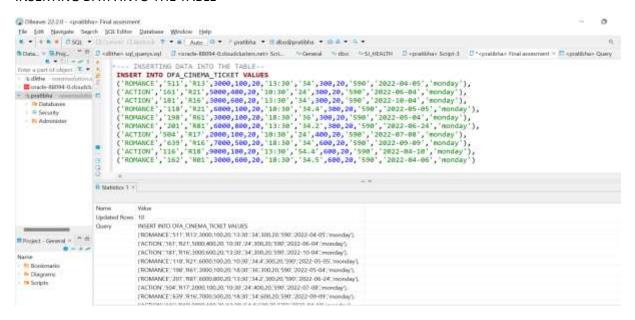
Answer:

Created table for cinema ticket.

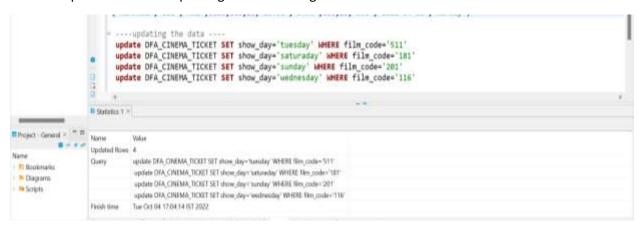


DML COMMANDS

INSERTING DATA INTO THE TABLE



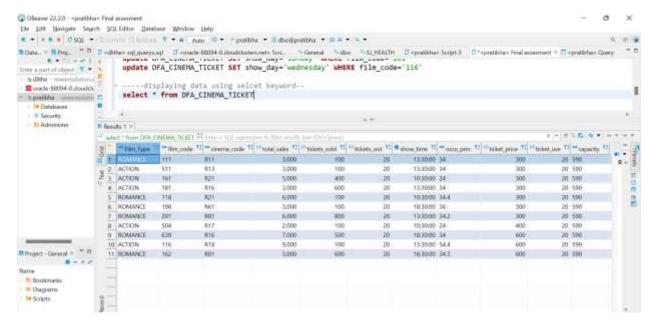
Below snapshot shows the updating the table using where condition



Deleting the data using delete command



Displaying the data using select command

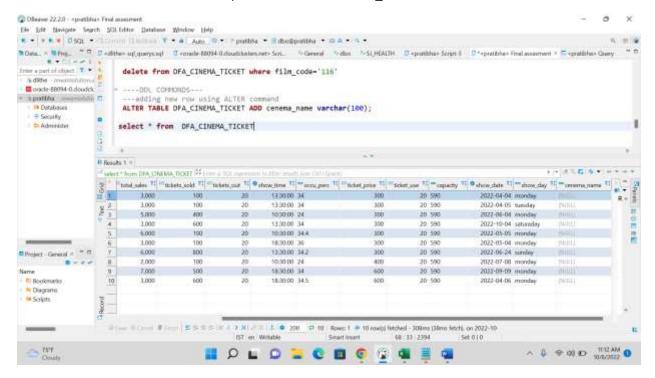


DML COMMANDS

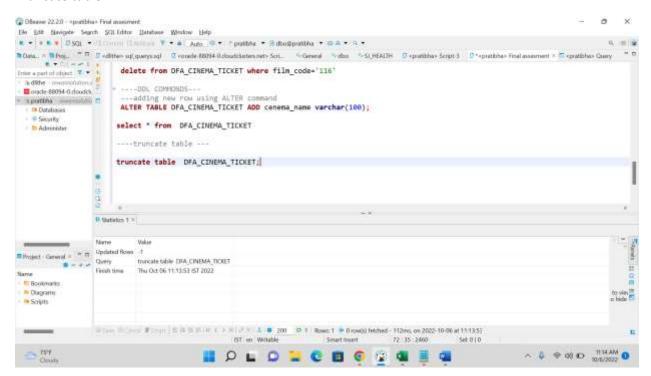
Adding new row using ALTER COMMAND



Result of alter command, below snapshot shows the cinema name colomn added to the table

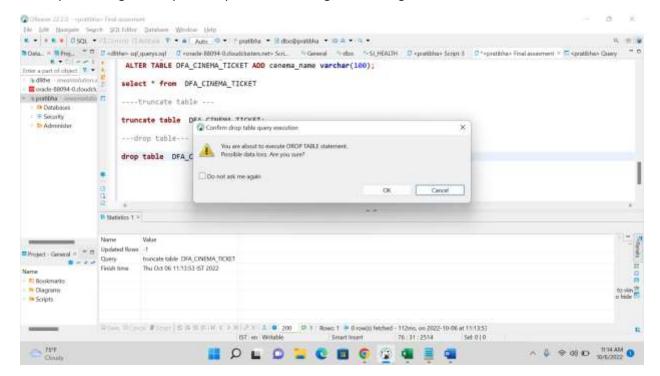


Truncate table

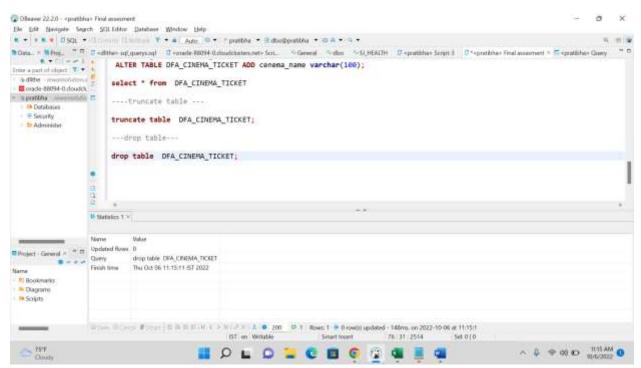


Drop table

While performing the drop table operation we will get a warning window



Below snapshot show the result of drop table



2nd data source

Creatting covid healthcare table to prerform ddl dml opertions

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DDL commands

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update covid heath care SET Provider Id='18883' MHERE DRGID='87'
                                          - DE PERP
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                                                                                   -----displaying data using select keyword--
select * from covid_heath_care
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                                          PS SYN
                                                                                    delete from covid_heath_care where provider_id='100'
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                                                                              ALTER TABLE covid_heath_care ADO desease_name varchar(100);
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                                                                                select * from covid_heath_care
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Below snapshot show the DDL commands

