

Module 1: SQL Server:

1. Perform the normalization

- Create tables as per normalization
- Insert the data
- Join the table
- Create different views

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

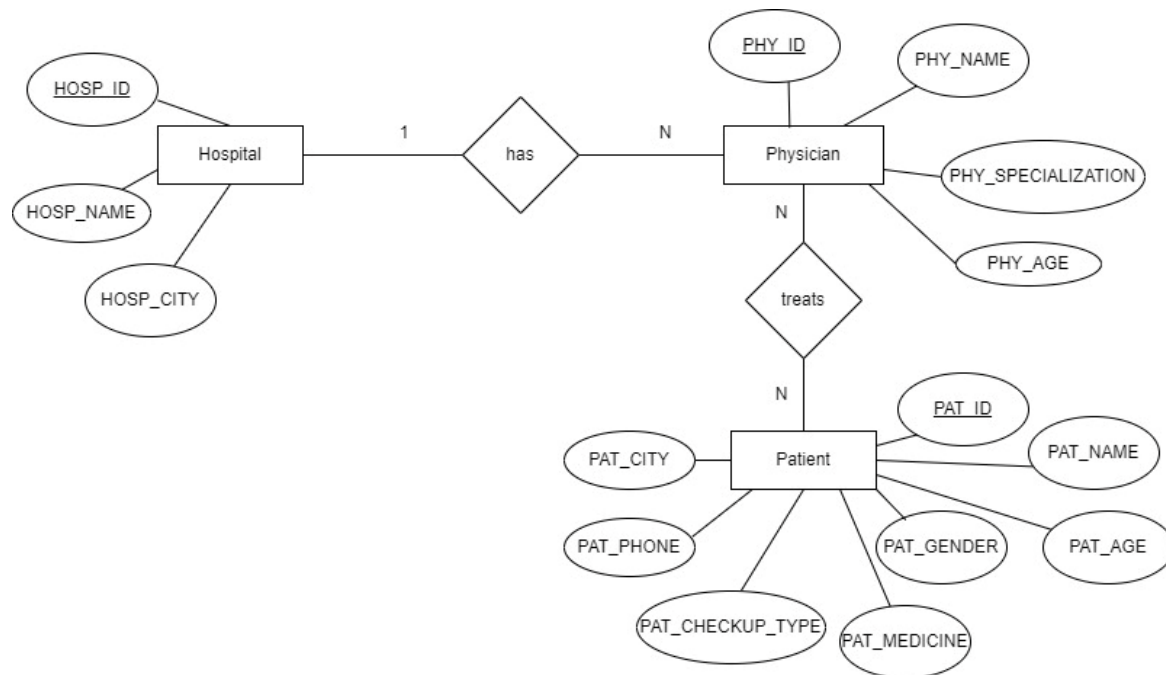
1) Creating normalized tables from denormalized table

```

-----UN NORMALISED TABLE-----
|
|
| CREATE TABLE TE_FA_Hospital_Management
| (
|   Hos_id varchar(10),
|   Hos_Name varchar(30),
|   Hos_City varchar(20),
|
|   Phys_Id varchar(20),
|   Phys_Name varchar(20),
|   Phys_Dpt varchar(20),
|
|   Patnt_id varchar(10),
|   Patnt_Name varchar(20),
|   Patnt_Gender char,
|   Patnt_Med varchar(20),
|   Patnt_Phone bigint,
|   Patnt_City varchar(100)
| )
|
| ---NORMALIZATION-
|
| CREATE TABLE TE_FA_HOSPITALS
| (
|   HSPT_ID VARCHAR(10) PRIMARY KEY,
|   HSPT_NAME VARCHAR(20),
|   HSPT_CITY VARCHAR(20)
| )
|
| CREATE TABLE TE_FA_PHYSICIANS
| (
|   PHY_ID VARCHAR(10) PRIMARY KEY,
|   PHY_NAME VARCHAR(20),
|   PHY_SPECIALIZATION VARCHAR(20),
|   PHY_AGE INT,
|   HSPT_ID VARCHAR(10)
|   FOREIGN KEY REFERENCES TE_FA_HOSPITALS(HSPT_ID)
|   ON DELETE SET NULL ON UPDATE SET NULL
| )
|
| CREATE TABLE TE_FA_PATIENTS
| (
|   PAT_ID VARCHAR(10) PRIMARY KEY,
|   PAT_NAME VARCHAR(20),
|   PAT_AGE INT,
|   PAT_GENDER CHAR,
|   PAT_MEDICINE VARCHAR(20),
|   PAT_CHECKUP_TYPE VARCHAR(20),
|   PAT_PHONE BIGINT,
|   PAT_CITY VARCHAR(20),
|   DOC_ID VARCHAR(10)
|   FOREIGN KEY REFERENCES TE_FA_PHYSICIANS(PHY_ID)
|   ON DELETE SET NULL ON UPDATE SET NULL
| )

```

ER Diagram



2) Inserting values based on the constraints

```

--INSERT TO HOSPITAL--
INSERT INTO TE_FA_HOSPITALS VALUES
('HS003', 'SPARSH HOSPITAL', 'BANGALORE'),
('HS004', 'SARJI HOSPITAL', 'SHIMOGA'),
('HS005', 'AJ HOSPITAL', 'MANGALORE'),
('HS001', 'APOLLO HOSPITAL', 'MYSORE'),
('HS002', 'FATHER MULLERS', 'MANGALORE');

SELECT * FROM TE_FA_HOSPITALS;

---INSERT DATA TO PHUSICIANS---

INSERT INTO TE_FA_PHYSICIANS VALUES
('SH129', 'KRITHIKA L', 'ALLERGISTS', '38', 'HS003'),
('AP102', 'REKHA SHEKAR', 'REGIONAL ANESTHESIA', '38', 'HS001'),
('AP103', 'MARY DSOUZA', 'ALLERGISTS', '33', 'HS001'),
('FM103', 'JAYA SHANKAR', 'PEDIATRICIANS', '32', 'HS002'),
('FM104', 'JYOTHI P', 'DERMATOLOGISTS', '37', 'HS002'),
('AJ105', 'MANASA R', 'ALLERGISTS', '40', 'HS002'),
('AJ106', 'JAYESH', 'OPHTHALMOLOGISTS', '45', 'HS002'),
('SH119', 'KRISHNA M', 'CARDIOLOGISTS', '38', 'HS003'),
('SP118', 'HEENA', 'OPHTHALMOLOGISTS', '45', 'HS004'),
('SP120', 'HARISH', 'NEPHROLOGISTS', '44', 'HS004'),
('AP101', 'SANTOSH M', 'PHYSIOTHERAPY', '35', 'HS001')
    
```

--INSERT DATA TO PATIENTS TABLE---

⊙ INSERT INTO TE_FA_PATIENTS VALUES

```
('P104','NAYANA',30,'F','FOSINOPRIL','CBC',5546267827,'MANGALORE','AJ105'),
('P103','NAVEEN',34,'M','BENAZEPRIL','X-RAY',6746267827,'MANGALORE','AJ105'),
('P105','SEETHA',33,'F','BENAZEPRIL','2D SCREENING',886267827,'UDUPI','AJ106'),
('P106','LAVITHA',43,'F','PERINDOPRIL','X-RAY',7886267827,'UDUPI','AJ105'),
('P101','RAHUL',41,'M','CETIRIZINE','BLOOD CHECKUP',8126267827,'MANGALORE','AJ105'),
('P110','AKASH',32,'M','PROPOFOL','SERUM CALCIUM',9236267827,'MYSORE','AP101'),
('P112','RAMYA',22,'F','CETIRIZINE','2D SCREENING',4526267827,'BANGALORE','AP103'),
('P113','MAYURI',32,'F','FEXOFENADINE','ECG',9426267827,'MYSORE','AP103'),
('P114','KAVYA',24,'F','FOSINOPRIL','CBC',9026267827,'BANGALORE','AP101'),
('P115','GIRISH',43,'M','CETIRIZINE','2D SCREENING',8026267827,'MANDYA','AP102'),
('P211','ABISHEK',32,'M','PROPOFOL','SERUM CALCIUM',9236267827,'MANGALORE','FM104'),
('P212','RACHANA',32,'F','CETIRIZINE','2D SCREENING',4526267827,'KARKALA','FM104'),
('P213','DIKSHITHA',31,'F','FEXOFENADINE','ECG',9426267827,'MANIPAL','FM104'),
('P214','NITHYA',26,'F','FOSINOPRIL','CBC',9026267827,'MANGALORE','FM104'),
('P215','DIONA V',43,'F','CETIRIZINE','2D SCREENING',8026267827,'MANIPAL','FM104'),
('P216','KEERTHI',12,'F','NUTRITION','ALBUTEROL',7836267827,'MANGALORE','FM103'),
('P217','MITHALI',08,'F','INFECTIONS','AMOXICILLIN',9846267827,'KARKALA','FM103'),
('P218','KIRAN',14,'M','NUTRITION','ALBUTEROL',9478267827,'MANIPAL','FM103'),
('P219','DIVESH',16,'M','ASTHMA','CEPHALEXIN',9026267827,'MANGALORE','FM103'),
('P220','JENNIFER',18,'F','ASTHMA','CEPHALEXIN',8026267867,'MANIPAL','FM103'),
('P311','ANKITHA',34,'F','PROPOFOL','SERUM CALCIUM',9236267866,'BANGALORE','SH129'),
('P312','BINDU',32,'F','CETIRIZINE','2D SCREENING',4526267856,'BANGALORE','SH129'),
('P313','KRUTHIK',31,'M','FEXOFENADINE','ECG',9426267866,'BANGALORE','FM104'),
('P314','NAVEEN',44,'M','FOSINOPRIL','CBC',9026267857,'MYSORE','SP118'),
('P315','KARAN',42,'M','CETIRIZINE','2D SCREENING',8026267457,'SHIMOGA','SP118'),
('P304','LAVANYA',30,'F','FOSINOPRIL','CBC',8946267827,'SHIMOGA','SP118'),
('P303','LEELA',34,'F','BENAZEPRIL','X-RAY',6778267827,'SHIMOGA','SP120'),
('P305','SEETHA',33,'F','BENAZEPRIL','2D SCREENING',866267827,'BANGALORE','SP120'),
('P306','LAVITHA',43,'F','PERINDOPRIL','X-RAY',7886264427,'UDUPI','SP120'),
('P301','RAHUL',41,'M','CETIRIZINE','BLOOD CHECKUP',8336267827,'SHIMOGA','SP118')
```

3) Retrieving inserted data from the tables

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```
SELECT * FROM TE_FA_HOSPITALS tfh  
SELECT * FROM TE_FA_PATIENTS tfp  
SELECT * FROM TE_FA_PHYSICIANS tfp2
```

Results 1 Results 3 (2) Results 3 (3) Results 3 (3) Results 3 (2) Results 3 (3)

SELECT * FROM TE_FA_HOSPITALS tfh SELECT Data filter is not supported

Grid	HSPT_ID	HSPT_NAME	HSPT_CITY
1	HS001	APOLLO HOSPITAL	MYSORE
2	HS002	FATHER MULLERS	MANGALORE
3	HS003	SPARSH HOSPITAL	BANGALORE
4	HS004	SARI HOSPITAL	SHIMOGA
5	HS005	AJ HOSPITAL	MANGALORE

```
SELECT * FROM TE_FA_HOSPITALS tfh  
SELECT * FROM TE_FA_PATIENTS tfp  
SELECT * FROM TE_FA_PHYSICIANS tfp2
```

Results 1 Results 3 (2) Results 3 (3) Results 3 Results 3 (2) Results 3 (3)

SELECT * FROM TE_FA_HOSPITALS tfh SELECT Data filter is not supported

Grid	PAT_ID	PAT_NAME	PAT_AGE	PAT_GENDER	PAT_MEDICINE	PAT_CHECKUP_TYPE	PAT_PHONE	PAT_CITY	DOC_ID
1	P101	RAHUL	41	M	CETIRIZINE	BLOOD CHECKUP	8,126,267,827	MANGALORE	AJ105
2	P103	NAVEEN	34	M	BENAZEPRIL	X-RAY	6,746,267,827	MANGALORE	AJ105
3	P104	NAYANA	30	F	FOSINOPRIL	CBC	5,546,267,827	MANGALORE	AJ105
4	P105	SEETHA	33	F	BENAZEPRIL	2D SCREENING	886,267,827	UDUPI	AJ106
5	P106	LAVITHA	43	F	PERINDOPRIL	X-RAY	7,886,267,827	UDUPI	AJ105
6	P110	AKASH	32	M	PROPOFOL	SERUM CALCIUM	9,236,267,827	MYSORE	AP101
7	P112	RAMYA	22	F	CETIRIZINE	2D SCREENING	4,526,267,827	BANGALORE	AP103
8	P113	MAYURI	32	F	FEXOFENADINE	ECG	9,426,267,827	MYSORE	AP103
9	P114	KAVYA	24	F	FOSINOPRIL	CBC	9,026,267,827	BANGALORE	AP101
10	P115	GIRISH	43	M	CETIRIZINE	2D SCREENING	8,026,267,827	MANDYA	AP102
11	P211	ABISHEK	32	M	PROPOFOL	SERUM CALCIUM	9,236,267,827	MANGALORE	FM104
12	P212	RACHANA	32	F	CETIRIZINE	2D SCREENING	4,526,267,827	KARKALA	FM104
13	P213	DIKSHITHA	31	F	FEXOFENADINE	ECG	9,426,267,827	MANIPAL	FM104
14	P214	NITHYA	26	F	FOSINOPRIL	CBC	9,026,267,827	MANGALORE	FM104
15	P215	DIONA V	43	F	CETIRIZINE	2D SCREENING	8,026,267,827	MANIPAL	FM104
16	P216	KEERTHI	12	F	NUTRITION	ALBUTEROL	7,836,267,827	MANGALORE	FM103
17	P217	MITHALI	8	F	INFECTIONS	AMOXICILLIN	9,846,267,827	KARKALA	FM103
18	P218	KIRAN	14	M	NUTRITION	ALBUTEROL	9,478,267,827	MANIPAL	FM103
19	P219	DIVESH	16	M	ASTHMA	CEPHALEXIN	9,026,267,827	MANGALORE	FM103
20	P220	JENNIFER	18	F	ASTHMA	CEPHALEXIN	8,026,267,867	MANIPAL	FM103

Save Cancel Print 200 30 rows fetched

SELECT * FROM TE_FA_PATIENTS tfp
SELECT * FROM TE_FA_PHYSICIANS tfp2

Results 1 Results 3 (2) Results 3 (3) Results 3 Results 3 (2) × Results 3 (3)

SELECT * FROM TE_FA_HOSPITALS tfh **SELECT** *Data filter is not supported*

	asc PAT_ID	asc PAT_NAME	123 PAT_AGE	asc PAT_GENDER	asc PAT_MEDICINE	asc PAT_CHECKUP_TYPE	123 PAT_PHONE	asc PAT_CITY	asc DOC_ID
12	P212	RACHANA	32	F	CETIRIZINE	2D SCREENING	4,526,267,827	KARKALA	FM104
13	P213	DIKSHITHA	31	F	FEXOFENADINE	ECG	9,426,267,827	MANIPAL	FM104
14	P214	NITHYA	26	F	FOSINOPRIL	CBC	9,026,267,827	MANGALORE	FM104
15	P215	DIONA V	43	F	CETIRIZINE	2D SCREENING	8,026,267,827	MANIPAL	FM104
16	P216	KEERTHI	12	F	NUTRITION	ALBUTEROL	7,836,267,827	MANGALORE	FM103
17	P217	MITHALI	8	F	INFECTIONS	AMOXICILLIN	9,846,267,827	KARKALA	FM103
18	P218	KIRAN	14	M	NUTRITION	ALBUTEROL	9,478,267,827	MANIPAL	FM103
19	P219	DIVESH	16	M	ASTHMA	CEPHALEXIN	9,026,267,827	MANGALORE	FM103
20	P220	JENNIFER	18	F	ASTHMA	CEPHALEXIN	8,026,267,867	MANIPAL	FM103
21	P301	RAHUL	41	M	CETIRIZINE	BLOOD CHECKUP	8,336,267,827	SHIMOGA	SP118
22	P303	LEELA	34	F	BENAZEPRIL	X-RAY	6,778,267,827	SHIMOGA	SP120
23	P304	LAVANYA	30	F	FOSINOPRIL	CBC	8,946,267,827	SHIMOGA	SP118
24	P305	SEETHA	33	F	BENAZEPRIL	2D SCRENENIG	866,267,827	BANGALORE	SP120
25	P306	LAVITHA	43	F	PERINDOPRIL	X-RAY	7,886,264,427	UDUPI	SP120
26	P311	ANKITHA	34	F	PROPOFOL	SERUM CALCIUM	9,236,267,866	BANGALORE	SH129
27	P312	BINDU	32	F	CETIRIZINE	2D SCREENING	4,526,267,856	BANGALORE	SH129
28	P313	KRUTHIK	31	M	FEXOFENADINE	ECG	9,426,267,866	BANGALORE	FM104
29	P314	NAVEEN	44	M	FOSINOPRIL	CBC	9,026,267,857	MYSORE	SP118
30	P315	KARAN	42	M	CETIRIZINE	2D SCREENING	8,026,267,457	SHIMOGA	SP118

Save Cancel Script 200 30 30 row(s) fetched

SELECT * FROM TE_FA_PHYSICIANS tfp2

Results 1 Results 3 (2) Results 3 (3) Results 3 Results 3 (2) Results 3 (3) ×

SELECT * FROM TE_FA_HOSPITALS tfh **SELECT** *Data filter is not supported*

	asc PHY_ID	asc PHY_NAME	asc PHY_SPECIALIZATION	123 PHY_AGE	asc HSPT_ID
	AJ105	MANASA R	ALLERGISTS	40	HS002
	AJ106	JAYESH	OPHTHALMOLOGISTS	45	HS002
	AP101	SANTOSH M	PHYSIOTHERAPY	35	HS001
	AP102	REKHA SHEKAR	REGIONAL ANESTHESIA	38	HS001
	AP103	MARY DSOUZA	ALLERGISTS	33	HS001
	FM103	JAYA SHANKAR	PEDIATRICIANS	32	HS002
	FM104	JYOTHI P	DERMATOLOGISTS	37	HS002
	SH119	KRISHNA M	CARDIOLOGISTS	38	HS003
	SH129	KRITHIKA L	ALLERGISTS	38	HS003
0	SP118	HEENA	OPHTHALMOLOGISTS	45	HS004
1	SP120	HARISH	NEPHROLOGISTS	44	HS004

a) Query to perform inner join to three tables

a) Query to perform inner join to three tables

```
--Joins---
--INNER JOIN--

SELECT H.HSPT_ID, H.HSPT_NAME , P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION,
PA.PAT_ID, PA.PAT_NAME, PA.PAT_MEDICINE, PA.PAT_CHECKUP_TYPE FROM
TE_FA_HOSPITALS AS H
INNER JOIN TE_FA_PHYSICIANS AS P
ON H.HSPT_ID = P.HSPT_ID
INNER JOIN TE_FA_PATIENTS PA
ON P.PHY_ID = PA.DOC_ID ;
```

Results 1 ×

Results 3 (2)

Results 3 (2)

Results 3 (2)

Results 3 (3)

SELECT H.HSPT_ID, H.HSPT_NAME, P.PHY_ID,

Enter a SQL expression to filter results (use Ctrl+Space)

	HSPT_ID	HSPT_NAME	PHY_ID	PHY_NAME	PHY_SPECIALIZATION	PAT_ID	PAT_NAME	PAT_MEDICINE	PAT_CHECKUP_TYPE
1	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P101	RAHUL	CETIRIZINE	BLOOD CHECKUP
2	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P103	NAVEEN	BENAZEPRIL	X-RAY
3	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P104	NAYANA	FOSINOPRIL	CBC
4	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P106	LAVITHA	PERINDOPRIL	X-RAY
5	HS002	FATHER MULLERS	AJ106	JAYESH	OPHTHALMOLOGISTS	P105	SEETHA	BENAZEPRIL	2D SCREENING
6	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY	P110	AKASH	PROPOFOL	SERUM CALCIUM
7	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY	P114	KAVYA	FOSINOPRIL	CBC
8	HS001	APOLLO HOSPITAL	AP102	REKHA SHEKAR	REGIONAL ANESTHESIA	P115	GIRISH	CETIRIZINE	2D SCREENING
9	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS	P112	RAMYA	CETIRIZINE	2D SCREENING
10	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS	P113	MAYURI	FEXOFENADINE	ECG
11	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P216	KEERTHI	NUTRITION	ALBUTEROL
12	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P217	MITHALI	INFECTIONS	AMOXICILLIN
13	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P218	KIRAN	NUTRITION	ALBUTEROL
14	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P219	DIVESH	ASTHMA	CEPHALEXIN
15	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P220	JENNIFER	ASTHMA	CEPHALEXIN
16	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P211	ABISHEK	PROPOFOL	SERUM CALCIUM
17	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P212	RACHANA	CETIRIZINE	2D SCREENING
18	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P213	DIKSHITHA	FEXOFENADINE	ECG
19	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P214	NITHYA	FOSINOPRIL	CBC
20	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P215	DIONA V	CETIRIZINE	2D SCREENING
21	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P313	KRUTHIK	FEXOFENADINE	ECG
22	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS	P311	ANKITHA	PROPOFOL	SERUM CALCIUM
23	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS	P312	BINDU	CETIRIZINE	2D SCREENING
24	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P301	RAHUL	CETIRIZINE	BLOOD CHECKUP
25	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P304	LAVANYA	FOSINOPRIL	CBC
26	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P314	NAVEEN	FOSINOPRIL	CBC
27	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P315	KARAN	CETIRIZINE	2D SCREENING
28	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P303	LEELA	BENAZEPRIL	X-RAY
29	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P305	SEETHA	BENAZEPRIL	2D SCREENING
30	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P306	LAVITHA	PERINDOPRIL	X-RAY

SaveCancelScript

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b) Query to perform left and right join together to three tables

<pre>--LEFT JOIN AND RIGHT JOIN-- SELECT H.HSPT_ID, H.HSPT_NAME , P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION, PA.PAT_ID, PA.PAT_NAME, PA.PAT_MEDICINE, PA.PAT_CHECKUP_TYPE FROM TE_FA_HOSPITALS AS H LEFT JOIN TE_FA_PHYSICIANS AS P ON H.HSPT_ID = P.HSPT_ID RIGHT JOIN TE_FA_PATIENTS PA ON P.PHY_ID = PA.DOC_ID ;</pre>									
<div>results 0 ×</div> <div> <div>SELECT H.HSPT_ID, H.HSPT_NAME , P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION, PA.PAT_ID, PA.PAT_NAME, PA.PAT_MEDICINE, PA.PAT_CHECKUP_TYPE FROM TE_FA_HOSPITALS AS H LEFT JOIN TE_FA_PHYSICIANS AS P ON H.HSPT_ID = P.HSPT_ID RIGHT JOIN TE_FA_PATIENTS AS PA ON P.PHY_ID = PA.DOC_ID ;</div> <div>Enter a SQL expression to filter results (use Ctrl+Space)</div> </div>									
	HSPT_ID	HSPT_NAME	PHY_ID	PHY_NAME	PHY_SPECIALIZATION	PAT_ID	PAT_NAME	PAT_MEDICINE	PAT_CHECKUP_TYPE
1	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P101	RAHUL	CETIRIZINE	BLOOD CHECKUP
2	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P103	NAVEEN	BENAZEPRIL	X-RAY
3	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P104	NAYANA	FOSINOPRIL	CBC
4	HS002	FATHER MULLERS	AJ106	JAYESH	OPHTHALMOLOGISTS	P105	SEETHA	BENAZEPRIL	2D SCRENENIG
5	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P106	LAVITHA	PERINDOPRIL	X-RAY
6	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY	P110	AKASH	PROPOFOL	SERUM CALCIUM
7	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS	P112	RAMYA	CETIRIZINE	2D SCREENING
8	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS	P113	MAYURI	FEXOFENADINE	ECG
9	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY	P114	KAVYA	FOSINOPRIL	CBC
10	HS001	APOLLO HOSPITAL	AP102	REKHA SHEKAR	REGIONAL ANESTHESIA	P115	GIRISH	CETIRIZINE	2D SCREENING
11	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P211	ABISHEK	PROPOFOL	SERUM CALCIUM
12	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P212	RACHANA	CETIRIZINE	2D SCREENING
13	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P213	DIKSHITHA	FEXOFENADINE	ECG
14	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P214	NITHYA	FOSINOPRIL	CBC
15	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P215	DIONA V	CETIRIZINE	2D SCREENING
16	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P216	KEERTHI	NUTRITION	ALBUTEROL
17	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P217	MITHALI	INFECTIONS	AMOXICILLIN
18	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P218	KIRAN	NUTRITION	ALBUTEROL
19	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P219	DIVESH	ASTHMA	CEPHALEXIN
20	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P220	JENNIFER	ASTHMA	CEPHALEXIN
21	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P301	RAHUL	CETIRIZINE	BLOOD CHECKUP
22	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P303	LEELA	BENAZEPRIL	X-RAY
23	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P304	LAVANYA	FOSINOPRIL	CBC
24	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P305	SEETHA	BENAZEPRIL	2D SCRENENIG
25	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P306	LAVITHA	PERINDOPRIL	X-RAY
26	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS	P311	ANKITHA	PROPOFOL	SERUM CALCIUM
27	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS	P312	BINDU	CETIRIZINE	2D SCREENING
28	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P313	KRUTHIK	FEXOFENADINE	ECG
29	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P314	NAVEEN	FOSINOPRIL	CBC
30	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P315	KARAN	CETIRIZINE	2D SCREENING

c) Query to perform full join to three tables.

SQL Query:

```

---FULL JOIN---
SELECT H.HSPT_ID, H.HSPT_NAME, P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION,
PA.PAT_ID, PA.PAT_NAME, PA.PAT_MEDICINE, PA.PAT_CHECKUP_TYPE FROM
TE_FA_HOSPITALS AS H
FULL JOIN TE_FA_PHYSICIANS AS P |
ON H.HSPT_ID = P.HSPT_ID
FULL JOIN TE_FA_PATIENTS PA
ON P.PHY_ID = PA.DOC_ID ;

```

Results 0 | Results 1 x

SELECT H.HSPT_ID, H.HSPT_NAME, P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION, PA.PAT_ID, PA.PAT_NAME, PA.PAT_MEDICINE, PA.PAT_CHECKUP_TYPE

	HSPT_ID	HSPT_NAME	PHY_ID	PHY_NAME	PHY_SPECIALIZATION	PAT_ID	PAT_NAME	PAT_MEDICINE	PAT_CHECKUP_TYPE
1	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P101	RAHUL	CETIRIZINE	BLOOD CHECKUP
2	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P103	NAVEEN	BENAZEPRIL	X-RAY
3	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P104	NAYANA	FOSINOPRIL	CBC
4	HS002	FATHER MULLERS	AJ106	JAYESH	OPHTHALMOLOGISTS	P105	SEETHA	BENAZEPRIL	2D SCREENING
5	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS	P106	LAVITHA	PERINDOPRIL	X-RAY
6	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY	P110	AKASH	PROPOFOL	SERUM CALCIUM
7	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS	P112	RAMYA	CETIRIZINE	2D SCREENING
8	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS	P113	MAYURI	FEXOFENADINE	ECG
9	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY	P114	KAVYA	FOSINOPRIL	CBC
10	HS001	APOLLO HOSPITAL	AP102	REKHA SHEKAR	REGIONAL ANESTHESIA	P115	GIRISH	CETIRIZINE	2D SCREENING
11	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P211	ABISHEK	PROPOFOL	SERUM CALCIUM
12	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P212	RACHANA	CETIRIZINE	2D SCREENING
13	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P213	DIKSHITHA	FEXOFENADINE	ECG
14	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P214	NITHYA	FOSINOPRIL	CBC
15	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P215	DIONA V	CETIRIZINE	2D SCREENING
16	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P216	KEERTHI	NUTRITION	ALBUTEROL
17	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P217	MITHALI	INFECTIONS	AMOXICILLIN
18	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P218	KIRAN	NUTRITION	ALBUTEROL
19	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P219	DIVESH	ASTHMA	CEPHALEXIN
20	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS	P220	JENNIFER	ASTHMA	CEPHALEXIN
21	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P301	RAHUL	CETIRIZINE	BLOOD CHECKUP
22	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P303	LEELA	BENAZEPRIL	X-RAY
23	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P304	LAVANYA	FOSINOPRIL	CBC
24	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P305	SEETHA	BENAZEPRIL	2D SCREENING
25	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS	P306	LAVITHA	PERINDOPRIL	X-RAY
26	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS	P311	ANKITHA	PROPOFOL	SERUM CALCIUM
27	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS	P312	BINDU	CETIRIZINE	2D SCREENING
28	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS	P313	KRUTHIK	FEXOFENADINE	ECG
29	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P314	NAVEEN	FOSINOPRIL	CBC
30	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS	P315	KARAN	CETIRIZINE	2D SCREENING
31	HS005	AJ HOSPITAL	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]	[NULL]
32	HS003	SPARSH HOSPITAL	SH119	KRISHNA M	CARDIOLOGISTS	[NULL]	[NULL]	[NULL]	[NULL]

d) Query to perform only left join for three tables

```

SELECT H.HSPT_ID, H.HSPT_NAME , P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION,
PA.PAT_ID, PA.PAT_NAME, PA.PAT_MEDICINE, PA.PAT_CHECKUP_TYPE FROM
TE_FA_HOSPITALS AS H
LEFT JOIN TE_FA_PHYSICIANS AS P
ON H.HSPT_ID = P.HSPT_ID]
LEFT JOIN TE_FA_PATIENTS PA
ON P.PHY_ID = PA.DOC_ID ;

```

Results 0 Results 1 ×

SELECT H.HSPT_ID, H.HSPT_NAME, P.PHY_ID, P.PH *Enter a SQL expression to filter results (use Ctrl+Space)*

	ASC	HSP_ID	ASC	HSP_NAME	ASC	PHY_ID	ASC	PHY_NAME	ASC	PHY_SPECIALIZATION	ASC	PAT_ID	ASC	PAT_NAME	ASC	PAT_MEDICINE	ASC	PAT_CHECKUP_TYPE	ASC
1		HS001		APOLLO HOSPITAL		AP101		SANTOSH M		PHYSIOTHERAPY		P110		AKASH		PROPOFOL		SERUM CALCIUM	
2		HS001		APOLLO HOSPITAL		AP101		SANTOSH M		PHYSIOTHERAPY		P114		KAVYA		FOSINOPRIL		CBC	
3		HS001		APOLLO HOSPITAL		AP102		REKHA SHEKAR		REGIONAL ANESTHESIA		P115		GIRISH		CETIRIZINE		2D SCREENING	
4		HS001		APOLLO HOSPITAL		AP103		MARY DSOUZA		ALLERGISTS		P112		RAMYA		CETIRIZINE		2D SCREENING	
5		HS001		APOLLO HOSPITAL		AP103		MARY DSOUZA		ALLERGISTS		P113		MAYURI		FEXOFENADINE		ECG	
6		HS002		FATHER MULLERS		AJ105		MANASA R		ALLERGISTS		P101		RAHUL		CETIRIZINE		BLOOD CHECKUP	
7		HS002		FATHER MULLERS		AJ105		MANASA R		ALLERGISTS		P103		NAVEEN		BENZAEPRIL		X-RAY	
8		HS002		FATHER MULLERS		AJ105		MANASA R		ALLERGISTS		P104		NAYANA		FOSINOPRIL		CBC	
9		HS002		FATHER MULLERS		AJ105		MANASA R		ALLERGISTS		P106		LAVITHA		PERINDOPRIL		X-RAY	
10		HS002		FATHER MULLERS		AJ106		JAYESH		OPHTHALMOLOGISTS		P105		SEETHA		BENZAEPRIL		2D SCRENENIG	
11		HS002		FATHER MULLERS		FM103		JAYA SHANKAR		PEDIATRICIANS		P216		KEERTHI		NUTRITION		ALBUTEROL	
12		HS002		FATHER MULLERS		FM103		JAYA SHANKAR		PEDIATRICIANS		P217		MITHALI		INFECTIONS		AMOXICILLIN	
13		HS002		FATHER MULLERS		FM103		JAYA SHANKAR		PEDIATRICIANS		P218		KIRAN		NUTRITION		ALBUTEROL	
14		HS002		FATHER MULLERS		FM103		JAYA SHANKAR		PEDIATRICIANS		P219		DIVESH		ASTHMA		CEPHALEXIN	
15		HS002		FATHER MULLERS		FM103		JAYA SHANKAR		PEDIATRICIANS		P220		JENNIFER		ASTHMA		CEPHALEXIN	
16		HS002		FATHER MULLERS		FM104		JYOTHI P		DERMATOLOGISTS		P211		ABISHEK		PROPOFOL		SERUM CALCIUM	
17		HS002		FATHER MULLERS		FM104		JYOTHI P		DERMATOLOGISTS		P212		RACHANA		CETIRIZINE		2D SCREENING	
18		HS002		FATHER MULLERS		FM104		JYOTHI P		DERMATOLOGISTS		P213		DIKSHITHA		FEXOFENADINE		ECG	
19		HS002		FATHER MULLERS		FM104		JYOTHI P		DERMATOLOGISTS		P214		NITHYA		FOSINOPRIL		CBC	
20		HS002		FATHER MULLERS		FM104		JYOTHI P		DERMATOLOGISTS		P215		DIONA V		CETIRIZINE		2D SCREENING	
21		HS002		FATHER MULLERS		FM104		JYOTHI P		DERMATOLOGISTS		P313		KRUTHIK		FEXOFENADINE		ECG	
22		HS003		SPARSH HOSPITAL		SH119		KRISHNA M		CARDIOLOGISTS		[NULL]		[NULL]		[NULL]		[NULL]	
23		HS003		SPARSH HOSPITAL		SH129		KRITHIKA L		ALLERGISTS		P311		ANKITHA		PROPOFOL		SERUM CALCIUM	
24		HS003		SPARSH HOSPITAL		SH129		KRITHIKA L		ALLERGISTS		P312		BINDU		CETIRIZINE		2D SCREENING	
25		HS004		SARJI HOSPITAL		SP118		HEENA		OPHTHALMOLOGISTS		P301		RAHUL		CETIRIZINE		BLOOD CHECKUP	
26		HS004		SARJI HOSPITAL		SP118		HEENA		OPHTHALMOLOGISTS		P304		LAVANYA		FOSINOPRIL		CBC	
27		HS004		SARJI HOSPITAL		SP118		HEENA		OPHTHALMOLOGISTS		P314		NAVEEN		FOSINOPRIL		CBC	
28		HS004		SARJI HOSPITAL		SP118		HEENA		OPHTHALMOLOGISTS		P315		KARAN		CETIRIZINE		2D SCREENING	
29		HS004		SARJI HOSPITAL		SP120		HARISH		NEPHROLOGISTS		P303		LEELA		BENZAEPRIL		X-RAY	
30		HS004		SARJI HOSPITAL		SP120		HARISH		NEPHROLOGISTS		P305		SEETHA		BENZAEPRIL		2D SCRENENIG	
31		HS004		SARJI HOSPITAL		SP120		HARISH		NEPHROLOGISTS		P306		LAVITHA		PERINDOPRIL		X-RAY	
32		HS005		AJ HOSPITAL		[NULL]		[NULL]		[NULL]		[NULL]		[NULL]		[NULL]		[NULL]	

5) Creating views

a) View based on joins

-----VIEWS-----

---VIEW BASED ON JOINS---

```
CREATE VIEW TE_FA_HOSPITAL_PHISISIANS
AS
SELECT H.HSPT_ID, H.HSPT_NAME , P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION
FROM TE_FA_HOSPITALS AS H
LEFT JOIN TE_FA_PHYSICIANS AS P
ON H.HSPT_ID = P.HSPT_ID
```

Results 0 Statistics 1 ×

Name	Value
Updated Rows	0
Query	CREATE VIEW TE_FA_HOSPITAL_PHISISIANS AS SELECT H.HSPT_ID, H.HSPT_NAME , P.PHY_ID, P.PHY_NAME, P.PHY_SPECIALIZATION FROM TE_FA_HOSPITALS AS H LEFT JOIN TE_FA_PHYSICIANS AS P ON H.HSPT_ID = P.HSPT_ID
Finish time	Wed Oct 05 13:01:16 IST 2022

Save Cancel Script 200 1 Rows: 1 0 row(s) updated - 95ms, on 2022-10-05 at 13:00:59
<anusna> SQL_PUL_PUL <anusna> views <anusna> Script-2 <anusna> new_db_ranks_views <anusna> SQL

```
SELECT * FROM TE_FA_HOSPITAL_PHISISIANS
```

Results 0 Results 1 ×

Enter a SQL expression to filter results (use Ctrl+Space)

Grid	HSPT_ID	HSPT_NAME	PHY_ID	PHY_NAME	PHY_SPECIALIZATION
1	HS001	APOLLO HOSPITAL	AP101	SANTOSH M	PHYSIOTHERAPY
2	HS001	APOLLO HOSPITAL	AP102	REKHA SHEKAR	REGIONAL ANESTHESIA
3	HS001	APOLLO HOSPITAL	AP103	MARY DSOUZA	ALLERGISTS
4	HS002	FATHER MULLERS	AJ105	MANASA R	ALLERGISTS
5	HS002	FATHER MULLERS	AJ106	JAYESH	OPHTHALMOLOGISTS
6	HS002	FATHER MULLERS	FM103	JAYA SHANKAR	PEDIATRICIANS
7	HS002	FATHER MULLERS	FM104	JYOTHI P	DERMATOLOGISTS
8	HS003	SPARSH HOSPITAL	SH119	KRISHNA M	CARDIOLOGISTS
9	HS003	SPARSH HOSPITAL	SH129	KRITHIKA L	ALLERGISTS
10	HS004	SARJI HOSPITAL	SP118	HEENA	OPHTHALMOLOGISTS
11	HS004	SARJI HOSPITAL	SP120	HARISH	NEPHROLOGISTS
12	HS005	AJ HOSPITAL	[NULL]	[NULL]	[NULL]

b) View based on conditions

```

---VIEW ON PATIENT AND HOSPITALS WITH SAME CITY---
CREATE VIEW TE_FA_PATIENT_HOSPITALS
AS
SELECT P.PAT_ID, P.PAT_NAME,P.PAT_MEDICINE,
H.HSPT_ID, H.HSPT_NAME,H.HSPT_CITY AS CITY
FROM TE_FA_PATIENTS AS P, TE_FA_HOSPITALS AS H
WHERE P.PAT_CITY = H.HSPT_CITY ;

SELECT * FROM TE_FA_PATIENT_HOSPITALS

```

Results 1 ×

SELECT * FROM TE_FA_PATIENT_HOSPITALS Enter a SQL expression to filter results (use Ctrl+Space)

	PAT_ID	PAT_NAME	PAT_MEDICINE	HSPT_ID	HSPT_NAME	CITY
1	P110	AKASH	PROPOFOL	HS001	APOLLO HOSPITAL	MYSORE
2	P113	MAYURI	FEXOFENADINE	HS001	APOLLO HOSPITAL	MYSORE
3	P314	NAVEEN	FOSINOPRIL	HS001	APOLLO HOSPITAL	MYSORE
4	P101	RAHUL	CETIRIZINE	HS002	FATHER MULLERS	MANGALORE
5	P103	NAVEEN	BENAZEPRIL	HS002	FATHER MULLERS	MANGALORE
6	P104	NAYANA	FOSINOPRIL	HS002	FATHER MULLERS	MANGALORE
7	P211	ABISHEK	PROPOFOL	HS002	FATHER MULLERS	MANGALORE
8	P214	NITHYA	FOSINOPRIL	HS002	FATHER MULLERS	MANGALORE
9	P216	KEERTHI	NUTRITION	HS002	FATHER MULLERS	MANGALORE
10	P219	DIVESH	ASTHMA	HS002	FATHER MULLERS	MANGALORE
11	P112	RAMYA	CETIRIZINE	HS003	SPARSH HOSPITAL	BANGALORE
12	P114	KAVYA	FOSINOPRIL	HS003	SPARSH HOSPITAL	BANGALORE
13	P305	SEETHA	BENAZEPRIL	HS003	SPARSH HOSPITAL	BANGALORE
14	P311	ANKITHA	PROPOFOL	HS003	SPARSH HOSPITAL	BANGALORE
15	P312	BINDU	CETIRIZINE	HS003	SPARSH HOSPITAL	BANGALORE
16	P313	KRUTHIK	FEXOFENADINE	HS003	SPARSH HOSPITAL	BANGALORE
17	P301	RAHUL	CETIRIZINE	HS004	SARJI HOSPITAL	SHIMOGA
18	P303	LEELA	BENAZEPRIL	HS004	SARJI HOSPITAL	SHIMOGA
19	P304	LAVANYA	FOSINOPRIL	HS004	SARJI HOSPITAL	SHIMOGA
20	P315	KARAN	CETIRIZINE	HS004	SARJI HOSPITAL	SHIMOGA
21	P101	RAHUL	CETIRIZINE	HS005	AJ HOSPITAL	MANGALORE
22	P103	NAVEEN	BENAZEPRIL	HS005	AJ HOSPITAL	MANGALORE
23	P104	NAYANA	FOSINOPRIL	HS005	AJ HOSPITAL	MANGALORE
24	P211	ABISHEK	PROPOFOL	HS005	AJ HOSPITAL	MANGALORE
25	P214	NITHYA	FOSINOPRIL	HS005	AJ HOSPITAL	MANGALORE
26	P216	KEERTHI	NUTRITION	HS005	AJ HOSPITAL	MANGALORE
27	P219	DIVESH	ASTHMA	HS005	AJ HOSPITAL	MANGALORE

----VIEW BASED ON CONDITION--

```
CREATE VIEW TE_FA_PATIENTS_VIEW AS
SELECT PAT_ID,PAT_NAME,PAT_AGE,PAT_MEDICINE,PAT_CHECKUP_TYPE, PAT_CITY,DOC_ID
FROM TE_FA_PATIENTS WHERE PAT_AGE>=33;

SELECT * FROM TE_FA_PATIENTS_VIEW
```

Results 0 Results 1 Results 2 ×

SELECT * FROM TE_FA_PATIENTS_VIEW Enter a SQL expression to filter results (use Ctrl+Space)

	PAT_ID	PAT_NAME	PAT_AGE	PAT_MEDICINE	PAT_CHECKUP_TYPE	PAT_CITY	DOC_ID
1	P101	RAHUL	41	CETIRIZINE	BLOOD CHECKUP	MANGALORE	AJ105
2	P103	NAVEEN	34	BENAZEPRIL	X-RAY	MANGALORE	AJ105
3	P105	SEETHA	33	BENAZEPRIL	2D SCRENENIG	UDUPI	AJ106
4	P106	LAVITHA	43	PERINDOPRIL	X-RAY	UDUPI	AJ105
5	P115	GIRISH	43	CETIRIZINE	2D SCREENING	MANDYA	AP102
6	P215	DIONA V	43	CETIRIZINE	2D SCREENING	MANIPAL	FM104
7	P301	RAHUL	41	CETIRIZINE	BLOOD CHECKUP	SHIMOGA	SP118
8	P303	LEELA	34	BENAZEPRIL	X-RAY	SHIMOGA	SP120
9	P305	SEETHA	33	BENAZEPRIL	2D SCRENENIG	BANGALORE	SP120
10	P306	LAVITHA	43	PERINDOPRIL	X-RAY	UDUPI	SP120
11	P311	ANKITHA	34	PROPOFOL	SERUM CALCIUM	BANGALORE	SH129
12	P314	NAVEEN	44	FOSINOPRIL	CBC	MYSORE	SP118
13	P315	KARAN	42	CETIRIZINE	2D SCREENING	SHIMOGA	SP118

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

a) Creating table and inserting data based on Cinema data set

```
---Cinema data source-----
--- CREATE
CREATE TABLE TE_FA_CINEMA
(
  FILM_TYPE VARCHAR(20),
  FILM_CODE INT,
  CINEMA_CODE INT,
  TOTAL_SALES BIGINT,
  TICKETS_SOLD INT,
  TICKETS_OUT INT,
  SHOW_TIME INT,
  OCCU_PERC FLOAT,
  TICKET_PRICE FLOAT,
  TICKET_USE INT,
  CAPACITY INT,
  DATE DATE
)

---DML--INSERT---
INSERT INTO TE_FA_CINEMA VALUES
('Romance',1492,304,1650000,112,0,4,18.33,147321.4286,112,611,'04/05/2018'),
('Romance',1492,352,13950000,93,0,5,10.57,150000,93,880,'04/05/2018'),
('Romance',1492,344,1020000,68,0,3,8.54,150000,68,796,'04/05/2018'),
('Romance',1492,344,300000,2,0,3,0.25,150000,2,800,'05/05/2018'),
('Romance',1492,73,240000,2,0,1,2.04,120000,2,98,'05/05/2018'),

('Thriller',1486,82,880000,11,0,6,0.62,80000,11,1774,'03/16/2018'),
('Thriller',1486,262,640000,8,0,3,1.68,80000,8,476,'03/16/2018'),
('Thriller',1486,50,400000,4,0,3,1.36,100000,4,294,'03/16/2018'),
('Thriller',1486,448,73940000,620,0,7,45.19,119258.0645,620,1372,'03/16/2018'),

('Drama',1471,492,780000,13,0,1,6.25,60000,13,208,'06/28/2018'),
('Drama',1471,509,500000,10,0,1,3.89,50000,10,257,'06/28/2018'),
('Drama',1471,448,480000,32,0,1,16.33,150000,32,196,'06/27/2018'),
('Drama',1471,492,480000,8,0,1,3.85,60000,8,208,'06/27/2018'),
('Comedy',1480,380,200000,2,0,1,2.86,100000,2,70,'04/27/2018'),
('Comedy',1480,448,40639998,271,0,4,35.66,149963.0923,271,760,'04/26/2018'),
('Horror',1484,509,250000,5,0,1,1.95,50000,5,256,'04/15/2018'),
('Horror',1484,448,421506996,2835,0,15,80.84,148679.7164,2835,3507,'04/14/2018'),
('Horror',1484,304,183750000,1242,0,8,90.52,147946.8599,1242,1372,'04/14/2018'),
('Horror',1484,517,250000,5,0,1,3.29,50000,5,152,'04/15/2018'),
('Family',1483,196,17840000,245,0,4,49.72816.32653,245,500,'04/01/2018'),
('Family',1483,152,16920000,424,0,2,94.64,39905.66038,424,448,'04/01/2018');
```

```

('Thriller',1486,82,880000,11,0,6,0.62,80000,11,1774,'03/16/2018'),
('Thriller',1486,262,640000,8,0,3,1.68,80000,8,476,'03/16/2018'),
('Thriller',1486,50,400000,4,0,3,1.36,100000,4,294,'03/16/2018'),
('Thriller',1486,448,73940000,620,0,7,45.19,119258.0645,620,1372,'03/16/2018'),

('Drama',1471,492,780000,13,0,1,6.25,60000,13,208,'06/28/2018'),
('Drama',1471,509,500000,10,0,1,3.89,50000,10,257,'06/28/2018')

```

Statistics 1 x

Name	Value
Updated Rows	21
INSERT INTO TE_FA_CINEMA VALUES	
('Romance',1492,304,16500000,112,0,4,18.33,147321.4286,112,611,'04/05/2018'),	
('Romance',1492,352,13950000,93,0,5,10.57,150000,93,880,'04/05/2018'),	
('Romance',1492,344,10200000,68,0,3,8.54,150000,68,796,'04/05/2018'),	
('Romance',1492,344,300000,2,0,3,0.25,150000,2,800,'05/05/2018'),	
('Romance',1492,73,240000,2,0,1,2.04,120000,2,98,'05/05/2018'),	
('Thriller',1486,82,880000,11,0,6,0.62,80000,11,1774,'03/16/2018'),	
('Thriller',1486,262,640000,8,0,3,1.68,80000,8,476,'03/16/2018'),	
('Thriller',1486,50,400000,4,0,3,1.36,100000,4,294,'03/16/2018'),	

Save Cancel Script 200 1 21 row(s) updated - 257ms, on 2022-10-05 at 15:37: IST en Writable Smart Insert 243 : 43 : 8085 Sel: 0 | 0

b) Retrieving results

```
SELECT * FROM TE_FA_CINEMA;
```

Results 1 x

SELECT * FROM TE_FA_CINEMA Enter a SQL expression to filter results (use Ctrl+Space)

	FILM_TYPE	FILM_CODE	CINEMA_CODE	TOTAL_SALES	TICKETS_SOLD	TICKETS_OUT	SHOW_TIME	OCCU_PERC	TICKET_PRICE	TICKET_USE
1	Romance	1,492	304	16,500,000	112	0	4	18.33	147,321.4286	112
2	Romance	1,492	352	13,950,000	93	0	5	10.57	150,000	93
3	Romance	1,492	344	10,200,000	68	0	3	8.54	150,000	68
4	Romance	1,492	344	300,000	2	0	3	0.25	150,000	2
5	Romance	1,492	73	240,000	2	0	1	2.04	120,000	2
6	Thriller	1,486	82	880,000	11	0	6	0.62	80,000	11
7	Thriller	1,486	262	640,000	8	0	3	1.68	80,000	8
8	Thriller	1,486	50	400,000	4	0	3	1.36	100,000	4
9	Thriller	1,486	448	73,940,000	620	0	7	45.19	119,258.0645	620
10	Drama	1,471	492	780,000	13	0	1	6.25	60,000	13
11	Drama	1,471	509	500,000	10	0	1	3.89	50,000	10
12	Drama	1,471	448	4,800,000	32	0	1	16.33	150,000	32
13	Drama	1,471	492	480,000	8	0	1	3.85	60,000	8
14	Comedy	1,480	380	200,000	2	0	1	2.86	100,000	2
15	Comedy	1,480	448	40,639,998	271	0	4	35.66	149,963.0923	271
16	Horror	1,484	509	250,000	5	0	1	1.95	50,000	5
17	Horror	1,484	448	421,506,996	2,835	0	15	80.84	148,679.7164	2,835
18	Horror	1,484	304	183,750,000	1,242	0	8	90.52	147,946.8599	1,242
19	Horror	1,484	517	250,000	5	0	1	3.29	50,000	5
20	Family	1,483	196	17,840,000	245	0	4	49	72,816.32653	245
21	Familv	1,483	152	16,920,000	424	0	2	94.64	39,905.66038	424

Save Cancel Script 200 21 Rows: 1 21 row(s) fetched - 602ms, on 2022-10-05 at 15:39:1

Aggregate functions

---AGGREGATE FUNCTIONS---

```
SELECT SUM(TOTAL_SALES)AS SUM_SALES, FILM_TYPE FROM TE_FA_CINEMA
GROUP BY FILM_TYPE;
```

```
SELECT MAX(TICKET_PRICE) AS MAX_PRICE,FILM_TYPE FROM TE_FA_CINEMA
GROUP BY FILM_TYPE
```

```
SELECT AVG(TICKET_USE) AS AVG_TICKET,FILM_CODE FROM TE_FA_CINEMA
GROUP BY FILM_CODE
```

Results 1 | Results 1 (2) | Results 1 (3)

SELECT SUM(TOTAL_SALES)AS SUM_SALES | Data filter is not supported

	MAX_PRICE	FILM_TYPE
1	149,963.0923	Comedy
2	150,000	Drama
3	72,816.32653	Family
4	148,679.7164	Horror
5	150,000	Romance
6	119,258.0645	Thriller

---AGGREGATE FUNCTIONS---

```
SELECT SUM(TOTAL_SALES)AS SUM_SALES, FILM_TYPE FROM TE_FA_CINEMA
GROUP BY FILM_TYPE;
```

```
SELECT MAX(TICKET_PRICE) AS MAX_PRICE,FILM_TYPE FROM TE_FA_CINEMA
GROUP BY FILM_TYPE
```

```
SELECT AVG(TICKET_USE) AS AVG_TICKET,FILM_CODE FROM TE_FA_CINEMA
GROUP BY FILM_CODE
```

Results 1 | Results 1 (2) | Results 1 (3)

SELECT SUM(TOTAL_SALES)AS SUM_SALES | Data filter is not supported

	SUM_SALES	FILM_TYPE
1	40,839.998	Comedy
2	6,560,000	Drama
3	34,760,000	Family
4	605,756,996	Horror
5	41,190,000	Romance
6	75,860,000	Thriller

SQL Query Editor:

```
SELECT AVG(TICKET_USE) AS AVG_TICKET, FILM_CODE FROM TE_FA_CINEMA
GROUP BY FILM_CODE
```

Results 1

SQL Query Editor:

```
SELECT SUM(TOTAL_SALES) AS SUM_SALES
```

Data filter is not supported

	123 AVG_TICKET	128 FILM_CODE
1	15	1,471
2	136	1,480
3	334	1,483
4	1,021	1,484
5	160	1,486
6	55	1,492

In Operator and between operators

SQL Query Editor:

```
--- IN OPERATOR ---
SELECT FILM_CODE, FILM_TYPE, TOTAL_SALES, TICKETS_SOLD, TICKETS_OUT, TICKET_PRICE
FROM TE_FA_CINEMA WHERE FILM_CODE IN(1492, 1471);
```

Results 1

SQL Query Editor:

```
SELECT FILM_CODE, FILM_TYPE, TOTAL_SALES
```

Enter a SQL expression to filter results (use Ctrl+Space)

	123 FILM_CODE	128 FILM_TYPE	123 TOTAL_SALES	123 TICKETS_SOLD	123 TICKETS_OUT	123 TICKET_PRICE
1	1,492	Romance	16,500,000	112	0	147,321.4286
2	1,492	Romance	13,950,000	93	0	150,000
3	1,492	Romance	10,200,000	68	0	150,000
4	1,492	Romance	300,000	2	0	150,000
5	1,492	Romance	240,000	2	0	120,000
6	1,471	Drama	780,000	13	0	60,000
7	1,471	Drama	500,000	10	0	50,000
8	1,471	Drama	4,800,000	32	0	150,000
9	1,471	Drama	480,000	8	0	60,000

---BETWEEN OPERATOR---

```
SELECT FILM_TYPE ,TOTAL_SALES,TICKETS_SOLD,TICKETS_OUT ,TICKET_PRICE
FROM TE_FA_CINEMA WHERE TICKET_PRICE BETWEEN 50000 AND 100000;
```

Results 1 x

SELECT FILM_TYPE,TOTAL_SALES,TICKETS_

	FILM_TYPE	TOTAL_SALES	TICKETS_SOLD	TICKETS_OUT	TICKET_PRICE
1	Thriller	880,000	11	0	80,000
2	Thriller	640,000	8	0	80,000
3	Thriller	400,000	4	0	100,000
4	Drama	780,000	13	0	60,000
5	Drama	500,000	10	0	50,000
6	Drama	480,000	8	0	60,000
7	Comedy	200,000	2	0	100,000
8	Horror	250,000	5	0	50,000
9	Horror	250,000	5	0	50,000
10	Family	17,840,000	245	0	72,816.32653

Save Cancel Script

200 10 Rows 1 10 rows fetched 225ms on 2022-10-06 at 00:46:3

Rank Function

---RANK FUNCTION---

```
SELECT DENSE_RANK() OVER (PARTITION BY FILM_TYPE ORDER BY TICKETS_SOLD DESC)
AS DRANK,FILM_TYPE ,TICKETS_SOLD FROM TE_FA_CINEMA;
```

Results 1 x

SELECT DENSE_RANK() OVER (PARTITION B

	DRANK	FILM_TYPE	TICKETS_SOLD
1	1	Comedy	271
2	2	Comedy	2
3	1	Drama	32
4	2	Drama	13
5	3	Drama	10
6	4	Drama	8
7	1	Family	424
8	2	Family	245
9	1	Horror	2,835
10	2	Horror	1,242
11	3	Horror	5
12	3	Horror	5
13	1	Romance	112
14	2	Romance	93
15	3	Romance	68
16	4	Romance	2
17	4	Romance	2
18	1	Thriller	620
19	2	Thriller	11
20	3	Thriller	8
21	4	Thriller	4

c) Alter command to drop column from table.

SQL Editor interface showing the execution of an ALTER TABLE command to drop a column from the TE_FA_CINEMA table.

SQL Script:

```
SELECT * FROM TE_FA_CINEMA;  
ALTER TABLE TE_FA_CINEMA DROP COLUMN DATE;
```

Statistics 1

Name	Value
Updated Rows	0
Query	ALTER TABLE TE_FA_CINEMA DROP COLUMN DATE
Finish time	Wed Oct 05 15:43:10 IST 2022

0 row(s) updated - 249ms, on 2022-10-05 at 15:43:1

Results 1

SELECT * FROM TE_FA_CINEMA

EMA_CODE	TOTAL_SALES	TICKETS_SOLD	TICKETS_OUT	SHOW_TIME	OCCU_PERC	TICKET_PRICE	TICKET_USE	CAPACITY
304	16,500,000	112	0	4	18.33	147,321.4286	112	611
352	13,950,000	93	0	5	10.57	150,000	93	880
344	10,200,000	68	0	3	8.54	150,000	68	796
344	300,000	2	0	3	0.25	150,000	2	800
73	240,000	2	0	1	2.04	120,000	2	98
82	880,000	11	0	6	0.62	80,000	11	1,774
262	640,000	8	0	3	1.68	80,000	8	476
50	400,000	4	0	3	1.36	100,000	4	294
448	73,940,000	620	0	7	45.19	119,258.0645	620	1,372
492	780,000	13	0	1	6.25	60,000	13	208
509	500,000	10	0	1	3.89	50,000	10	257
448	4,800,000	32	0	1	16.33	150,000	32	196
492	480,000	8	0	1	3.85	60,000	8	208
380	200,000	2	0	1	2.86	100,000	2	70
448	40,639,998	271	0	4	35.66	149,963.0923	271	760
509	250,000	5	0	1	1.95	50,000	5	256
448	421,506,996	2,835	0	15	80.84	148,679.7164	2,835	3,507
304	183,750,000	1,242	0	8	90.52	147,946.8599	1,242	1,372

21 Rows: 1 21 row(s) fetched - 667ms, on 2022-10-05 at 15:43:3

d) Update command to update the column based on condition

--UPDATE --
UPDATE TE_FA_CINEMA **SET** FILM_CODE=1493 **WHERE** FILM_TYPE ='ROMANCE';

Statistics 1 ×

Name	Value
Updated Rows	5
Query	--UPDATE -- UPDATE TE_FA_CINEMA SET FILM_CODE=1493 WHERE FILM_TYPE ='ROMANCE'
Finish time	Wed Oct 05 15:45:16 IST 2022

--UPDATE --
UPDATE TE_FA_CINEMA **SET** FILM_CODE=1493 **WHERE** FILM_TYPE ='ROMANCE';
SELECT * **FROM** TE_FA_CINEMA;

Results 1 ×

SELECT * **FROM** TE_FA_CINEMA *Enter a SQL expression to filter results (use Ctrl+Space)*

	FILM_TYPE	FILM_CODE	CINEMA_CODE	TOTAL_SALES	TICKETS_SOLD	TICKETS_OUT	SHOW_TIME	OCCU_PERC	TICKET_PRICE
1	Romance	1,493	304	16,500,000	112	0	4	18.33	147,321.4
2	Romance	1,493	352	13,950,000	93	0	5	10.57	150,
3	Romance	1,493	344	10,200,000	68	0	3	8.54	150,
4	Romance	1,493	344	300,000	2	0	3	0.25	150,
5	Romance	1,493	73	240,000	2	0	1	2.04	120,
6	Thriller	1,486	82	880,000	11	0	6	0.62	80,
7	Thriller	1,486	262	640,000	8	0	3	1.68	80,
8	Thriller	1,486	50	400,000	4	0	3	1.36	100,
9	Thriller	1,486	448	73,940,000	620	0	7	45.19	119,258.0
10	Drama	1,471	492	780,000	13	0	1	6.25	60,
11	Drama	1,471	509	500,000	10	0	1	3.89	50,
12	Drama	1,471	448	4,800,000	32	0	1	16.33	150,
13	Drama	1,471	492	480,000	8	0	1	3.85	60,
14	Comedy	1,480	380	200,000	2	0	1	2.86	100,
15	Comedy	1,480	448	40,639,998	271	0	4	35.66	149,963.0
16	Horror	1,484	509	250,000	5	0	1	1.95	50,
17	Horror	1,484	448	421,506,996	2,835	0	15	80.84	148,679.7
18	Horror	1,484	304	183,750,000	1,242	0	8	90.52	147,946.8
19	Horror	1,484	517	250,000	5	0	1	3.29	50,

Save Cancel Print 200 21 Rows: 1 21 row(s) fetched - 461ms on 2022-10-05 at 15:45:4

e) Deleting row from table based on condition

SQL Query Editor:

```
SELECT * FROM TE_FA_CINEMA;

---DELETE ---
DELETE FROM TE_FA_CINEMA WHERE CINEMA_CODE =304;
```

Statistics 1 x

Name	Value
Updated Rows	2
Query	---DELETE --- DELETE FROM TE_FA_CINEMA WHERE CINEMA_CODE =304
Finish time	Wed Oct 05 15:46:39 IST 2022

Results 1 x

SQL Query: `SELECT * FROM TE_FA_CINEMA`

	FILM_TYPE	FILM_CODE	CINEMA_CODE	TOTAL_SALES	TICKETS_SOLD	TICKETS_OUT	SHOW_TIME	OCCU_PERC	TICKET_PRICE
1	Romance	1,493	352	13,950,000	93	0	5	10.57	150.
2	Romance	1,493	344	10,200,000	68	0	3	8.54	150.
3	Romance	1,493	344	300,000	2	0	3	0.25	150.
4	Romance	1,493	73	240,000	2	0	1	2.04	120.
5	Thriller	1,486	82	880,000	11	0	6	0.62	80.
6	Thriller	1,486	262	640,000	8	0	3	1.68	80.
7	Thriller	1,486	50	400,000	4	0	3	1.36	100.
8	Thriller	1,486	448	73,940,000	620	0	7	45.19	119,258.0
9	Drama	1,471	492	780,000	13	0	1	6.25	60.
10	Drama	1,471	509	500,000	10	0	1	3.89	50.
11	Drama	1,471	448	4,800,000	32	0	1	16.33	150.
12	Drama	1,471	492	480,000	8	0	1	3.85	60.
13	Comedy	1,480	380	200,000	2	0	1	2.86	100.
14	Comedy	1,480	448	40,639,998	271	0	4	35.66	149,963.0
15	Horror	1,484	509	250,000	5	0	1	1.95	50.
16	Horror	1,484	448	421,506,996	2,835	0	15	80.84	148,679.7
17	Horror	1,484	517	250,000	5	0	1	3.29	50.
18	Family	1,483	196	17,840,000	245	0	4	49	72,816.32
19	Familv	1,483	152	16,920,000	424	0	2	94.64	39,905.66

19 Rows: 1 19 row(s) fetched - 301ms on 2022-10-05 at 15:46:4

f) Truncating table.

SQL Query Editor:

```
---TRUNCATE ---
TRUNCATE TABLE TE_FA_CINEMA
```

Statistics 1 x

Name	Value
Updated Rows	-1
Query	---TRUNCATE --- TRUNCATE TABLE TE_FA_CINEMA
Finish time	Wed Oct 05 15:47:22 IST 2022

SQL Editor window showing the execution of a TRUNCATE statement:

```
---TRUNCATE ---  
TRUNCATE TABLE TE_FA_CINEMA  
  
SELECT * FROM TE_FA_CINEMA tfc |
```

Results 1 x

SELECT * FROM TE_FA_CINEMA tfc

FILM_TYPE	FILM_CODE	CINEMA_CODE	TOTAL_SALES	TICKETS_SOLD	TICKETS_OUT	SHOW_TIME	OCCU_PERC	TICKET_PRICE	TICKET_USE	CAPA
-----------	-----------	-------------	-------------	--------------	-------------	-----------	-----------	--------------	------------	------

g) Dropping table from the database.

SQL Editor window showing the execution of a DROP statement:

```
---DROP--  
DROP TABLE TE_FA_CINEMA
```

Results 1 x

SELECT * FROM TE_FA_CINEMA tfc

Confirm drop table query execution

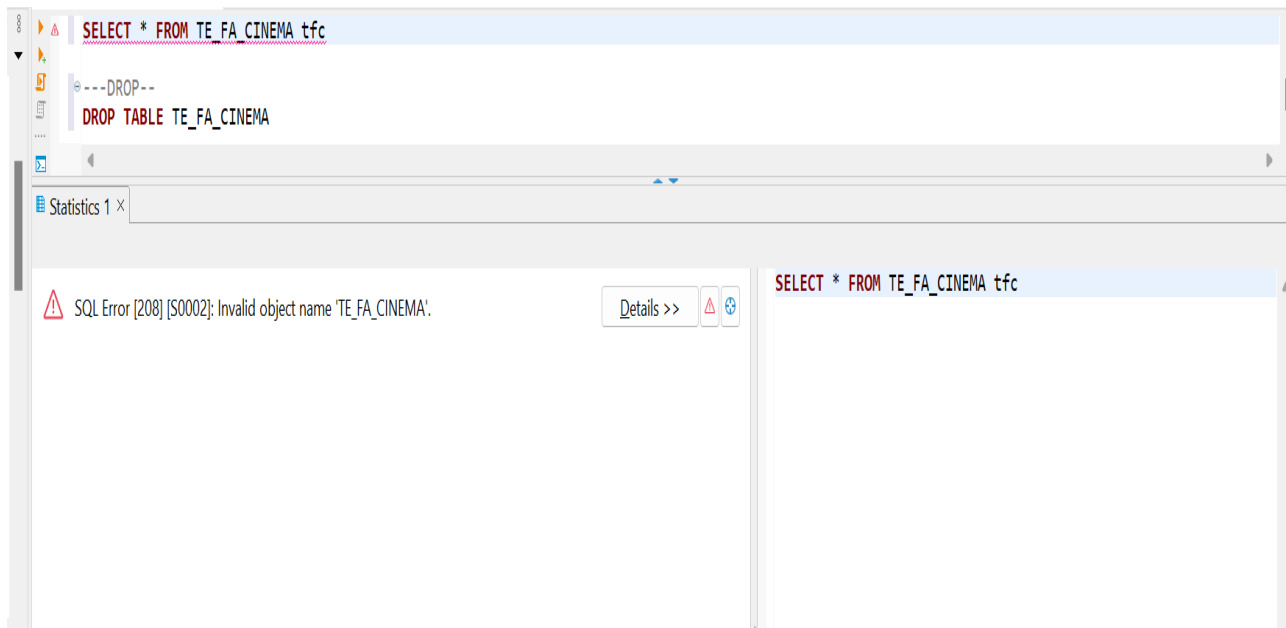
You are about to execute DROP TABLE statement.
Possible data loss. Are you sure?

☐ Do not ask me again

OK Cancel

Statistics 1 x

Name	Value
Updated Rows	0
Query	---DROP-- DROP TABLE TE_FA_CINEMA
Finish time	Wed Oct 05 15:48:02 IST 2022



a) Creating table and inserting data from Hospital data source

```
---HOSPITAL DATA SOURCE---
---CREATE TABLE---
CREATE TABLE TE_FA_HEALTH_INS
(
  PID INT,
  AGE INT,
  GENDER VARCHAR(10),
  CASTE VARCHAR(20),
  CATEGORY_CODE VARCHAR(10),
  CATEGORY_NAME VARCHAR(50),
  SURGERY_CODE VARCHAR(20),
  SURGERY VARCHAR(100),
  VILLAGE VARCHAR(20),
  MANDAL_NAME VARCHAR(20),
  DISTRICT VARCHAR(20),
  PREAUTH_AMT BIGINT
)
```


INSERT INTO TE_FA_HEALTH_INS VALUES

```
(1,56,'Female','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Lolugu','Ponduru','Srikakulam',12500),
(2,37,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Borivanka','Kaviti','Srikakulam',12500),
(3,50,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Kapasakuddi','Kaviti','Srikakulam',12500),
(4,45,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Telikipenta','Sarubujjili','Srikakulam',12500),
(10,49,'Male','OC','S7','CARDIAC AND CARDIOTHORACIC SURGERY','S7.2.1.1','Coronary Bypass Surgery','Ward-15','Guntur(C)','Guntur',115846),
(11,52,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Rajam','Butchayyapeta','Vishakhapatnam',12500),
(12,56,'Male','SC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Thurlapadu','Edlapadu','Guntur',30000),
(13,65,'Female','SC','M5','CARDIOLOGY','M5.1.5','Medical Management of Refractory Cardiac Failure','Pulipadu','Gurazala','Guntur',40000),
(14,75,'Male','OC','M5','CARDIOLOGY','M5.1.5','Medical Management of Refractory Cardiac Failure','Karlalalem','Karlalalem','Guntur',40000),
(20,57,'Female','OC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Phirangipuram','Phirangipuram','Guntur',30000),
(21,55,'Male','OC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf Ayyavari','Polavaram','Jangareddigudem','West Godavari',12500),
(22,74,'Female','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram 4th Ward','Palasa','Kasibugga','Srikakulam',30000),
(23,57,'Male','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Kambakaya','Narasannapeta','Srikakulam',30000),
(24,56,'Male','BC','S7','CARDIAC AND CARDIOTHORACIC SURGERY','S7.2.1.1','Coronary Bypass Surgery','Konduru','Achampeta','Guntur',115846),
(25,31,'Male','BC','S5','ORTHOPEDIC SURGERY AND PROCEDURES','S5.1.2','Excision Or Other Operations For Scaphoid Fractures','Laxmipuram','Mandasa',30000),
(26,68,'Male','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Matchalesam','Gara','Srikakulam',30000),
(27,72,'Female','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Meghavaram','Santhabommali','Srikakulam',30000),
(28,66,'Female','OC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Chavali','Vemuru','Guntur',30000),
(29,35,'Male','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Shermahammadpuram','Etcherla','Srikakulam',30000),
(30,72,'Female','SC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Talam','Tekkali','Srikakulam',30000);
```

Statistics 1 x

Name	Value
Updated Rows	20
Query	INSERT INTO TE_FA_HEALTH_INS VALUES (1,56,'Female','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Lolugu','Ponduru','Srikakulam',12500), (2,37,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Borivanka','Kaviti','Srikakulam',12500), (3,50,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Kapasakuddi','Kaviti','Srikakulam',12500), (4,45,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Telikipenta','Sarubujjili','Srikakulam',12500), (10,49,'Male','OC','S7','CARDIAC AND CARDIOTHORACIC SURGERY','S7.2.1.1','Coronary Bypass Surgery','Ward-15','Guntur(C)','Guntur',115846), (11,52,'Male','BC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf','Rajam','Butchayyapeta','Vishakhapatnam',12500), (12,56,'Male','SC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Thurlapadu','Edlapadu','Guntur',30000), (13,65,'Female','SC','M5','CARDIOLOGY','M5.1.5','Medical Management of Refractory Cardiac Failure','Pulipadu','Gurazala','Guntur',40000), (14,75,'Male','OC','M5','CARDIOLOGY','M5.1.5','Medical Management of Refractory Cardiac Failure','Karlalalem','Karlalalem','Guntur',40000), (20,57,'Female','OC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Phirangipuram','Phirangipuram','Guntur',30000), (21,55,'Male','OC','M6','NEPHROLOGY','M6.5','Maintenance Hemodialysis For Crf Ayyavari','Polavaram','Jangareddigudem','West Godavari',12500), (22,74,'Female','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram 4th Ward','Palasa','Kasibugga','Srikakulam',30000), (23,57,'Male','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Kambakaya','Narasannapeta','Srikakulam',30000), (24,56,'Male','BC','S7','CARDIAC AND CARDIOTHORACIC SURGERY','S7.2.1.1','Coronary Bypass Surgery','Konduru','Achampeta','Guntur',115846), (25,31,'Male','BC','S5','ORTHOPEDIC SURGERY AND PROCEDURES','S5.1.2','Excision Or Other Operations For Scaphoid Fractures','Laxmipuram','Mandasa',30000), (26,68,'Male','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Matchalesam','Gara','Srikakulam',30000), (27,72,'Female','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Meghavaram','Santhabommali','Srikakulam',30000), (28,66,'Female','OC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Chavali','Vemuru','Guntur',30000), (29,35,'Male','BC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Shermahammadpuram','Etcherla','Srikakulam',30000), (30,72,'Female','SC','M5','CARDIOLOGY','M5.1.2','Management Of Acute MI With Angiogram','Talam','Tekkali','Srikakulam',30000);

b) Retrieving inserted data.

SELECT * FROM TE_FA_HEALTH_INS

Results 1 x

Enter a SQL expression to filter results (use Ctrl+Space)

Grid	PID	AGE	GENDER	CASTE	CATEGORY_CODE	CATEGORY_NAME	SURGERY_CODE	SURGERY	VILLAGE	MANDA
1	1	56	Female	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Lolugu	Ponduru
2	2	37	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Borivanka	Kaviti
3	3	50	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Kapasakuddi	Kaviti
4	4	45	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Telikipenta	Sarubujjili
5	10	49	Male	OC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery	Ward-15	Guntur(C)
6	11	52	Male	BC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Rajam	Butchayya
7	12	56	Male	SC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Thurlapadu	Edlapadu
8	13	65	Female	SC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractor	Pulipadu	Gurazala
9	14	75	Male	OC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractor	Karlalalem	Karlalalem
10	20	57	Female	OC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Phirangipuram	Phirangipuram
11	21	55	Male	OC	M6	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Polavaram	Jangaredd
12	22	74	Female	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Palasa	Kasibugga
13	23	57	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Kambakaya	Narasann
14	24	56	Male	BC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery	Konduru	Achampet
15	25	31	Male	BC	S5	ORTHOPEDIC SURGERY AND PROCEDURES	S5.1.2	Excision Or Other Operations For S	Laxmipuram	Mandasa
16	26	68	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Matchalesam	Gara
17	27	72	Female	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Meghavaram	Santhabor
18	28	66	Female	OC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Chavali	Vemuru
19	29	35	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Shermahamm	Etcherla
20	30	72	Female	SC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With An	Talam	Tekkali

Count Function

SQL Editor:

```
SELECT * FROM TE_FA_HEALTH_INS
```

SQL Editor:

```
-----COUNT-----  
SELECT GENDER,COUNT(PID) FROM TE_FA_HEALTH_INS  
GROUP BY GENDER;
```

Results 1 x

SQL Editor:

```
SELECT GENDER,COUNT(PID) FROM TE_FA
```

Grid:

	GENDER	COUNT
1	Female	7
2	Male	13

Concatenation function

SQL Editor:

```
---STRING FUNCTION--  
SELECT PID,SURGERY,CONCAT(CATEGORY_CODE,'-',CATEGORY_NAME) AS CATEGORY, DISTRICT  
FROM TE_FA_HEALTH_INS
```

Results 1 x

SQL Editor:

```
SELECT PID,SURGERY,CONCAT(CATEGORY_CODE,'-',CATEGORY_NAME) AS CATEGORY, DISTRICT
```

Grid:

	PID	SURGERY	CATEGORY	DISTRICT
1	1	Maintenance Hemodialysis For Crf	M6-NEPHROLOGY	Srikakulam
2	2	Maintenance Hemodialysis For Crf	M6-NEPHROLOGY	Srikakulam
3	3	Maintenance Hemodialysis For Crf	M6-NEPHROLOGY	Srikakulam
4	4	Maintenance Hemodialysis For Crf	M6-NEPHROLOGY	Srikakulam
5	10	Coronary Bypass Surgery	S7-CARDIAC AND CARDIOTHORACIC SURGERY	Guntur
6	11	Maintenance Hemodialysis For Crf	M6-NEPHROLOGY	Vishakhapatnam
7	12	Management Of Acute MI With Angiogram	M5-CARDIOLOGY	Guntur
8	13	Medical Management of Refractory Cardiac Failure	M5-CARDIOLOGY	Guntur
9	14	Medical Management of Refractory Cardiac Failure	M5-CARDIOLOGY	Guntur
10	20	Management Of Acute MI With Angiogram	M5-CARDIOLOGY	Guntur
11	21	Maintenance Hemodialysis For Crf Ayyavari	M6-NEPHROLOGY	West Godavari
12	22	Management Of Acute MI With Angiogram 4th Ward	M5-CARDIOLOGY	Srikakulam
13	23	Management Of Acute MI With Angiogram	M5-CARDIOLOGY	Srikakulam
14	24	Coronary Bypass Surgery	S7-CARDIAC AND CARDIOTHORACIC SURGERY	Guntur
15	25	Excision Or Other Operations For Scaphoid Fractures	S5-ORTHOPEDIC SURGERY AND PROCEDURES	Srikakulam
16	26	Management Of Acute MI With Angiogram	M5-CARDIOLOGY	Srikakulam
17	27	Management Of Acute MI With Angiogram	M5-CARDIOLOGY	Srikakulam

Save Cancel Print 200 20 Rows 1 20 rows fetched - 300ms on 2022-10-06 at 10:05:1

c) Alter command to delete the column

---ALTER---

```
ALTER TABLE TE_FA_HEALTH_INS DROP COLUMN VILLAGE;
```

Statistics 1 ×

Name	Value
Updated Rows	0
Query	---ALTER---
	ALTER TABLE TE_FA_HEALTH_INS DROP COLUMN VILLAGE
Finish time	Wed Oct 05 17:13:15 IST 2022

SELECT * FROM TE_FA_HEALTH_INS

---ALTER---

```
ALTER TABLE TE_FA_HEALTH_INS DROP COLUMN VILLAGE;
```

Results 1 ×

SELECT * FROM TE_FA_HEALTH_INS Enter a SQL expression to filter results (use Ctrl+Space)

	CODE	CATEGORY_NAME	SURGERY_CODE	SURGERY	MANDAL_NAME	DISTRICT	PREAUTH_AMT
1		NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Ponduru	Srikakulam	12,500
2		NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Kaviti	Srikakulam	12,500
3		NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Kaviti	Srikakulam	12,500
4		NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Sarubujili	Srikakulam	12,500
5		CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery	Guntur(C)	Guntur	115,846
6		NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	Butchayyapeta	Vishakhapatnam	12,500
7		CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Edlapadu	Guntur	30,000
8		CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	Gurazala	Guntur	40,000
9		CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	Karlapalem	Guntur	40,000
10		CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Phirangipuram	Guntur	30,000
11		NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf Ayyavari	Jangareddigudem	West Godavari	12,500
12		CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram 4th Ward	Kasibugga	Srikakulam	30,000
13		CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Narasannapeta	Srikakulam	30,000
14		CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery	Achampeta	Guntur	115,846
15		ORTHOPEDIC SURGERY AND PROCEDURES	S5.1.2	Excision Or Other Operations For Scaphoid Fractures	Mandasa	Srikakulam	15,000
16		CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Gara	Srikakulam	30,000
17		CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	Santhabommali	Srikakulam	30,000

Save Cancel Script 200 Rows: 1 20 row(s) fetched - 221ms, on 2022-10-05 at 17:13:2

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d) Update any rows based on condition.

The screenshot shows a SQL query execution interface. At the top, the query is displayed: `---UPDATE --
UPDATE TE_FA_HEALTH_INS SET CATEGORY_CODE='M11' WHERE CATEGORY_NAME='NEPHROLOGY';`. Below the query, a tab labeled "Statistics 1" is active. The statistics table shows the following data:

Name	Value
Updated Rows	6
Query	---UPDATE -- UPDATE TE_FA_HEALTH_INS SET CATEGORY_CODE='M11' WHERE CATEGORY_NAME='NEPHROLOGY'
Finish time	Wed Oct 05 17:15:14 IST 2022

Results 1 x

SQL: `SELECT * FROM TE_FA_HEALTH_INS` Enter a SQL expression to filter results (use Ctrl+Space)

	PID	AGE	GENDER	CASTE	CATEGORY_CODE	CATEGORY_NAME	SURGERY_CODE	SURGERY	
1	1	56	Female	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	P
2	2	37	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	K
3	3	50	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	K
4	4	45	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	S
5	10	49	Male	OC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery	G
6	11	52	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf	B
7	12	56	Male	SC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	E
8	13	65	Female	SC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	G
9	14	75	Male	OC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure	K
10	20	57	Female	OC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	P
11	21	55	Male	OC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf Ayyavari	Ji
12	22	74	Female	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram 4th Ward	K
13	23	57	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	N
14	24	56	Male	BC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery	A
15	25	31	Male	BC	S5	ORTHOPEDIC SURGERY AND PROCEDURES	S5.1.2	Excision Or Other Operations For Scaphoid Fractures	N
16	26	68	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	G
17	27	72	Female	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram	S

Save Cancel Script 20 Rows: 1 20 row(s) fetched - 483ms, on 2022-10-05 at 17:52

e) Deleting row based on condition.

---DELETE ---
DELETE FROM TE_FA_HEALTH_INS WHERE PID=1;

Statistics 1 x

Name	Value
Updated Rows	1
Query	---DELETE --- DELETE FROM TE_FA_HEALTH_INS WHERE PID=1
Finish time	Wed Oct 05 17:16:25 IST 2022

---DELETE ---
DELETE FROM TE_FA_HEALTH_INS WHERE PID=1;
SELECT * FROM TE_FA_HEALTH_INS

Results 1 x

SELECT * FROM TE_FA_HEALTH_INS Enter a SQL expression to filter results (use Ctrl+Space)

	PID	AGE	GENDER	CASTE	CATEGORY_CODE	CATEGORY_NAME	SURGERY_CODE	SURGERY
1	2	37	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf
2	3	50	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf
3	4	45	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf
4	10	49	Male	OC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery
5	11	52	Male	BC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf
6	12	56	Male	SC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram
7	13	65	Female	SC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure
8	14	75	Male	OC	M5	CARDIOLOGY	M5.1.5	Medical Management of Refractory Cardiac Failure
9	20	57	Female	OC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram
10	21	55	Male	OC	M11	NEPHROLOGY	M6.5	Maintenance Hemodialysis For Crf Ayyavari
11	22	74	Female	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram 4th Ward
12	23	57	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram
13	24	56	Male	BC	S7	CARDIAC AND CARDIOTHORACIC SURGERY	S7.2.1.1	Coronary Bypass Surgery
14	25	31	Male	BC	S5	ORTHOPEDIC SURGERY AND PROCEDURES	S5.1.2	Excision Or Other Operations For Scaphoid Fractures
15	26	68	Male	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram
16	27	72	Female	BC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram
17	28	66	Female	OC	M5	CARDIOLOGY	M5.1.2	Management Of Acute MI With Angiogram

Save Cancel Script 19 Rows: 1 19 row(s) fetched - 260ms, on 2022-10-05 at 17:16:4

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f) Truncating rows of table.

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the query: `TRUNCATE TABLE TE_FA_HEALTH_INS`. The bottom pane shows the execution statistics for 'Statistics 1'.

Name	Value
Updated Rows	-1
Query	---TRUNCATE-- TRUNCATE TABLE TE_FA_HEALTH_INS
Finish time	Wed Oct 05 17:17:18 IST 2022

```
SELECT * FROM TE_FA_HEALTH_INS |
---TRUNCATE---
TRUNCATE TABLE TE_FA_HEALTH_INS
```

Results 1 x

SELECT * FROM TE_FA_HEALTH_INS | Enter a SQL expression to filter results (use Ctrl+Space)

PID	AGE	GENDER	CASTE	CATEGORY_CODE	CATEGORY_NAME	SURGERY_CODE	SURGERY	MANDAL_NAME	DISTRICT	PREAUTH_AMT
-----	-----	--------	-------	---------------	---------------	--------------	---------	-------------	----------	-------------

g) Drop table from database.

