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CSE SECTION 1  
DATA WAREHOUSE & DATA MINING LAB ASSIGNMENT 4

Question : Implement star data warehouse schema of treatment in mysql . In which dimension tables are patient, doctor,time and also make fact table.

```
mysql> create database treatment;  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> use treatment;  
Database changed
```

```
mysql> create table doctor(Did varchar(5),dname varchar(50),qualification  
varchar(10),specialization varchar(30),contactno varchar(10),gender varchar(6));  
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> ALTER TABLE DOCTOR  
-> ADD PRIMARY KEY(Did);  
Query OK, 0 rows affected (0.10 sec)  
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> insert into doctor  
values('D1','Parasuram','MBBS/MD','Physician','6301456231','Male');  
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into doctor  
values('D2','Hymavathi','MBBS/DGO','Gynacologist','9989342156','Female');  
Query OK, 1 row affected (0.03 sec)
```

```
mysql> insert into doctor  
values('D3','Ramesh','MBBS/MD','Pulmonologist','8876231456','Male'),('D4','Srinivas  
arao','MBBS/ENT','ENT','9989342346','Male');  
Query OK, 2 rows affected (0.03 sec)  
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> insert into doctor  
values('D5','RamaChandram','MBBS/MS','Cardiologist','9975342356','Male'),('D6','Kav  
itha','MBBS/BDS','Dentist','9876543210','Female  
Krishna','MBBS/MD','Dermatologist','8876532145','Male');  
Query OK, 4 rows affected (0.03 sec)  
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> insert into doctor  
values('D9','Prasanth','MBBS/MS','Neurologist','7654312356','Male'),('D10','Bhavani  
,','MBBS/MS','Nephrologist','7645882311','Female  

```

```
Babu','MBBS/MS','Orthopaedist','6634216789','Male');
Query OK, 4 rows affected (0.01 sec)
Records: 4 Duplicates: 0 Warnings: 0
```

```
mysql> create table patient(Pid varchar(5) NOT NULL PRIMARY KEY,pname
varchar(50),age int,gender varchar(6),disease varchar(50),aadharao
varchar(12),address varchar(50),contactno varchar(10));
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> insert into patient
values('P1','Radhika','36','Female','Fever','455321345678','Punuru','7095217782'),(
'P2','Srinivasarao','45','Male','Cold',
'453267541234','Punuru','7036267613');
Query OK, 2 rows affected (0.03 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> insert into patient
values('P3','Seetha','23','Female','Diarhoea','321456783210','Ongole','7795234561')
,('P4','Arjun',25,'Male','Epidermolysis',
'322114567834','Ongole','8036267513'),('P5','Vijay',28,'Male','ThroatInfection','12
4567321245','Medarametla','9965432178');
Query OK, 3 rows affected (0.03 sec)
Records: 3 Duplicates: 0 Warnings: 0
```

```
mysql> insert into patient
values('P6','Chitra',23,'Female','Asthma','124567323455','Mangalagiri','9965455578'
),('P7','Mahalakshmi',27,'Female','Typhoid',
'124567225655','Eluru','9945985578'),('P8','Siri',25,'Female','ToothDecay','9887672
25655','Eluru','9989985578'),('P9','Prasanthi',32,'Female','BabyCheckup','822367225
655','Vijayawada','7885985578'),('P10','Surya',37,'Male','Fever','789067225655','Ma
rtur','6754985578');
Query OK, 5 rows affected (0.03 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

```
mysql> create table time(Tid varchar(5),Date varchar(10),Week varchar(20),Year
varchar(5),Month varchar(15),Day varchar(20));
Query OK, 0 rows affected (0.04 sec)
```

```
mysql> ALTER TABLE TIME
-> ADD PRIMARY KEY(Tid);
Query OK, 0 rows affected (0.06 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> insert into time
values('T1','22-04-2022','15','2022','April','Friday'),('T2','23-04-2022','15','202
2','April','Saturday'),('T3','24-04-2022','16',
'2022','April','Sunday'),('T4','25-04-2022','16','2022','April','Monday'),('T5','26
-04-2022','16','2022','April','Tuesday'),('T6','27-04-2022','16','2022',
'April','Wednesday'),('T7','28-04-2022','16','2022','April','Thursday'),('T8','29-0
```

```
4-2022','16','2022','April','Friday'),('T9','30-04-2022','16','2022',
'April','Saturday');
```

Query OK, 9 rows affected (0.03 sec)

Records: 9 Duplicates: 0 Warnings: 0

```
mysql> insert into time
```

```
values('T10','01-05-2022','17','2022','May','Sunday'),('T11','02-05-2022','17','2022',
'May','Monday'),('T12','03-05-2022','17',
'2022','May','Tuesday'),('T13','04-05-2022','17','2022','May','Wednesday'),('T14','
05-05-2022','17','2022','May','Thursday'),('T15','06-05-2022','17','2022','May','Fr
iday');
```

Query OK, 6 rows affected (0.03 sec)

Records: 6 Duplicates: 0 Warnings: 0

```
mysql> create table fact(Did varchar(5),Pid varchar(5),Tid
varchar(5),charge_per_Visit varchar(5),no_of_visit varchar(5));
```

Query OK, 0 rows affected (0.04 sec)

```
mysql> ALTER TABLE FACT
```

```
-> ADD FOREIGN KEY(Did)
```

```
-> REFERENCES DOCTOR(Did);
```

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE FACT
```

```
-> ADD FOREIGN KEY(Pid)
```

```
-> REFERENCES PATIENT(Pid);
```

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE FACT
```

```
-> ADD FOREIGN KEY(Tid)
```

```
-> REFERENCES TIME(Tid);
```

Query OK, 0 rows affected (0.07 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> insert into fact
```

```
values('D1','P1','T2','200','2'),('D1','P2','T1','200','1'),('D1','P10','T14','200',
'3'),('D2','P9','T12','1200','4'),('D4','P5',
'T10','400','1'),('D3','P6','T9','300','1'),('D6','P8','T2','400','2'),('D4','P8','
T9','600','3'),('D1','P3','T4','1200','2');
```

Query OK, 9 rows affected (0.03 sec)

Records: 9 Duplicates: 0 Warnings: 0

```
mysql> describe doctor;
```

Field	Type	Null	Key	Default	Extra
Did	varchar(5)	NO	PRI	NULL	
dname	varchar(50)	YES		NULL	

qualification	varchar(10)	YES		NULL		
specialization	varchar(30)	YES		NULL		
contactno	varchar(10)	YES		NULL		
gender	varchar(6)	YES		NULL		

6 rows in set (0.00 sec)

mysql> select \* from doctor;

Did	dname	qualification	specialization	contactno	gender
D1	Parasuram	MBBS/MD	Physician	6301456231	Male
D10	Bhavani	MBBS/MS	Nephrologist	7645882311	Female
D11	Ravindra	MBBS/MS	Urologist	6331245321	Male
D12	Hari Babu	MBBS/MS	Orthopaedist	6634216789	Male
D2	Hymavathi	MBBS/DGO	Gynacologist	9989342156	Female
D3	Ramesh	MBBS/MD	Pulmonologist	8876231456	Male
D4	Srinivasarao	MBBS/ENT	ENT	9989342346	Male
D5	RamaChandram	MBBS/MS	Cardiologist	9975342356	Male
D6	Kavitha	MBBS/BDS	Dentist	9876543210	Female
D7	Vijay Krishna	MBBS/MD	Peditrician	9877654321	Male
D8	Radha Krishna	MBBS/MD	Dermatologist	8876532145	Male
D9	Prasanth	MBBS/MS	Neurologist	7654312356	Male

12 rows in set (0.00 sec)

mysql> describe patient;

Field	Type	Null	Key	Default	Extra
Pid	varchar(5)	NO	PRI	NULL	
pname	varchar(50)	YES		NULL	
age	int	YES		NULL	
gender	varchar(6)	YES		NULL	
disease	varchar(50)	YES		NULL	
aadharno	varchar(12)	YES		NULL	
address	varchar(50)	YES		NULL	
contactno	varchar(10)	YES		NULL	

8 rows in set (0.00 sec)

mysql> select \* from patient;

Pid	pname	age	gender	disease	aadharno	address
P1	Radhika	36	Female	Fever	455321345678	Punuru
	7095217782					

P10	Surya	37	Male	Fever	789067225655	Martur
P2	Srinivasarao	45	Male	Cold	453267541234	Punuru
P3	Seetha	23	Female	Diarhoea	321456783210	Ongole
P4	Arjun	25	Male	Epidermolysis	322114567834	Ongole
P5	Vijay	28	Male	ThroatInfection	124567321245	Medarametla
P6	Chitra	23	Female	Asthma	124567323455	Mangalagiri
P7	Mahalakshmi	27	Female	Typhoid	124567225655	Eluru
P8	Siri	25	Female	ToothDecay	988767225655	Eluru
P9	Prasanthi	32	Female	BabyCheckup	822367225655	Vijayawada

```

+-----+-----+-----+-----+-----+-----+
-+-----+
10 rows in set (0.00 sec)

```

```
mysql> describe time;
```

Field	Type	Null	Key	Default	Extra
Tid	varchar(5)	NO	PRI	NULL	
Date	varchar(10)	YES		NULL	
Week	varchar(20)	YES		NULL	
Year	varchar(5)	YES		NULL	
Month	varchar(15)	YES		NULL	
Day	varchar(20)	YES		NULL	

```
6 rows in set (0.00 sec)
```

```
mysql> select * from time;
```

Tid	Date	Week	Year	Month	Day
T1	22-04-2022	15	2022	April	Friday
T10	01-05-2022	17	2022	May	Sunday
T11	02-05-2022	17	2022	May	Monday
T12	03-05-2022	17	2022	May	Tuesday
T13	04-05-2022	17	2022	May	Wednesday
T14	05-05-2022	17	2022	May	Thursday
T15	06-05-2022	17	2022	May	Friday
T2	23-04-2022	15	2022	April	Saturday
T3	24-04-2022	16	2022	April	Sunday
T4	25-04-2022	16	2022	April	Monday
T5	26-04-2022	16	2022	April	Tuesday

T6	27-04-2022	16	2022	April	Wednesday
T7	28-04-2022	16	2022	April	Thursday
T8	29-04-2022	16	2022	April	Friday
T9	30-04-2022	16	2022	April	Saturday

15 rows in set (0.00 sec)

mysql> describe fact;

Field	Type	Null	Key	Default	Extra
Did	varchar(5)	YES	MUL	NULL	
Pid	varchar(5)	YES	MUL	NULL	
Tid	varchar(5)	YES	MUL	NULL	
charge_per_Visit	varchar(5)	YES		NULL	
no_of_visit	varchar(5)	YES		NULL	

5 rows in set (0.00 sec)

mysql> select \* from fact;

Did	Pid	Tid	charge_per_Visit	no_of_visit
D1	P1	T2	200	2
D1	P2	T1	200	1
D1	P10	T14	200	3
D2	P9	T12	1200	4
D4	P5	T10	400	1
D3	P6	T9	300	1
D6	P8	T2	400	2
D4	P8	T9	600	3
D1	P3	T4	1200	2

9 rows in set (0.00 sec)

mysql> select Did,sum(charge\_per\_visit) as total\_fee,sum(no\_of\_visit) as total\_visit

-> from fact

-> group by Did;

Did	total_fee	total_visit
D1	1800	8
D2	1200	4
D3	300	1
D4	1000	4
D6	400	2

5 rows in set (0.03 sec)