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Roll No.: TA 57

mysql> use emp;  
Database changed

mysql> create table Employee(ename Varchar(50) PRIMARY KEY, city VARCHAR(20));  
Query OK, 0 rows affected (0.05 sec)

mysql> create table Company(cname VARCHAR(50) PRIMARY KEY, city VARCHAR(20));  
Query OK, 0 rows affected (0.02 sec)

mysql> create table Emp\_Company(ename VARCHAR(50), cname VARCHAR(20), salary  
DECIMAL(10,2), jdate DATE);  
Query OK, 0 rows affected (0.02 sec)

mysql> ALTER table Emp\_Company Add(FOREIGN KEY(ename) REFERENCES Employee(ename),  
FOREIGN KEY(cname) REFERENCES Company(cname));  
Query OK, 0 rows affected (0.07 sec)  
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc Emp\_Company;

Field	Type	Null	Key	Default	Extra
ename	varchar(50)	YES	MUL	NULL	
cname	varchar(20)	YES	MUL	NULL	
salary	decimal(10,2)	YES		NULL	
jdate	date	YES		NULL	

4 rows in set (0.01 sec)

mysql> create table Manager(ename VARCHAR(50), mname VARCHAR(50), FOREIGN  
KEY(ename) REFERNCES Employee(ename));  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that  
corresponds to your MySQL server version for the right syntax to use near  
'REFERNCES Employee(ename))' at line 1

mysql> create table Manager(ename VARCHAR(50), mname VARCHAR(50), FOREIGN  
KEY(ename) REFERENCES Employee(ename));  
Query OK, 0 rows affected (0.02 sec)

mysql> CREATE TABLE Emp\_shift(ename VARCHAR(50) FOREIGN KEY(ename) REFERENCES  
Employee(ename),shift VARCHAR(20));  
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that  
corresponds to your MySQL server version for the right syntax to use near  
'FOREIGN KEY(ename) REFERENCES Employee(ename),shift VARCHAR(20))' at line 1

mysql> CREATE TABLE Emp\_shift(ename VARCHAR(50), FOREIGN KEY(ename) REFERENCES  
Employee(ename),shift VARCHAR(20));  
Query OK, 0 rows affected (0.03 sec)

mysql> INSERT INTO Employee VALUES('Rajiv', 'Pune'), ('Tanmay', 'Nagpur'),  
('Dinesh', 'Mumbai'), ('Aatish', 'Pune'), ('Priyanka', 'Nagpur'), ('Omkar',

```
'Mumbai'), ('Raj', 'Pune'), ('Sanket', 'Mumbai'), ('Pragati', 'Pune'), ('Sanika', 'Nagpur');
```

Query OK, 10 rows affected (0.01 sec) Records: 10 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Company VALUES ("Google", "Pune"), ("Amazon", "Nagpur"), ("Flipkart", "Mumbai");
```

Query OK, 3 rows affected (0.00 sec) Records: 3 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Company VALUES ("TCS", "Pune"), ("Wipro", "Mumbai"), ("Meta", "Mumbai"), ("JP morgon", "Pune"), ("Credit Suisse", "Nagpur");
```

Query OK, 5 rows affected (0.00 sec) Records: 5 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Company VALUES ("ACC", "Pune"), ("TATA", "Mumbai"), ("BAJAJ", "Nagpur");
```

Query OK, 3 rows affected (0.00 sec) Records: 3 Duplicates: 0 Warnings: 0

```
mysql> select * from Company;
```

cname	city
ACC	Pune
Amazon	Nagpur
BAJAJ	Nagpur
Credit Suisse	Nagpur
Flipkart	Mumbai
Google	Pune
JP morgon	Pune
Meta	Mumbai
TATA	Mumbai
TCS	Pune
Wipro	Mumbai

11 rows in set (0.00 sec)

```
mysql> INSERT INTO Emp_company (ename, cname, salary, jdate) VALUES ('Rajiv', 'ACC', 6000.00, '2023-01-15'), ('Tanmay', 'TATA', 8000.00, '2023-02-10'), ('Dinesh', 'ACC', 5500.00, '2023-03-20'), ('Aatish', 'TATA', 7000.00, '2023-04-05'), ('Priyanka', 'BAJAJ', 7500.00, '2023-01-25'), ('Omkar', 'ACC', 5000.00, '2023-03-01'), ('Raj', 'TATA', 9000.00, '2023-05-12'), ('Sanket', 'BAJAJ', 6500.00, '2023-04-18'), ('Pragati', 'TATA', 3000.00, '2023-06-08'), ('Sanika', 'BAJAJ', 4500.00, '2023-07-03');
```

Query OK, 10 rows affected (0.01 sec) Records: 10 Duplicates: 0 Warnings: 0

```
mysql> INSERT into Manager VALUES ("Dinesh", "ACC"), ("Raj", "TATA");
```

Query OK, 2 rows affected (0.01 sec) Records: 2 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO Emp_shift (ename, shift) VALUES ('Rajiv', 'Day'), ('Tanmay', 'Night'), ('Dinesh', 'Day'), ('Aatish', 'Day'), ('Priyanka', 'Night'), ('Omkar', 'Night'), ('Raj', 'Day'), ('Sanket', 'Day'), ('Pragati', 'Night'), ('Sanika', 'Day');
```

Query OK, 10 rows affected (0.01 sec) Records: 10 Duplicates: 0 Warnings: 0

mysql> -- Operation:

mysql> SELECT cname from Company where city="Pune";

cname
ACC
Google
JP morgon
TCS

4 rows in set (0.00 sec)

mysql> SELECT ename from Employee where city="Nagpur";

ename
Priyanka
Sanika
Tanmay

3 rows in set (0.00 sec)

mysql> SELECT Employee.ename from Employee JOIN Emp\_company ON Employee.ename = Emp\_company.ename WHERE Emp\_company.cname = "ACC" AND Emp\_company.salary > 5000;

ename
Rajiv
Dinesh

2 rows in set (0.00 sec)

mysql> SELECT Employee.ename from Employee LEFT JOIN Emp\_company ON Employee.ename=Emp\_company.ename WHERE Emp\_company.cname <> "ACC";

ename
Aatish
Pragati
Priyanka
Raj
Sanika
Sanket
Tanmay

7 rows in set (0.00 sec)

mysql> SELECT Employee.ename from Employee LEFT JOIN Emp\_company ON Employee.ename=Emp\_company.ename WHERE Emp\_company.cname IN ("BAJAJ","TATA");

ename
Aatish
Pragati

Priyanka
Raj
Sanika
Sanket
Tanmay

+-----+

7 rows in set (0.00 sec)

```
mysql> SELECT Employee.ename from Employee LEFT JOIN Emp_company ON
Employee.ename=Emp_company.ename WHERE Emp_company.salary > 2000AND
Emp_company.salary < 6000 AND Emp_company.cname = "TATA";
```

+-----+

ename
-------

+-----+

Pragati
---------

+-----+

1 row in set (0.00 sec)

```
mysql> create VIEW v1 SELECT Employee.ename from Employee LEFT JOIN Emp_company
ON Employee.ename=Emp_company.ename WHERE Emp_company.salary > 2000 AND
Emp_company.salary < 6000 AND Emp_company.cname = "TATA";a
```

+-----+

ename
-------

+-----+

Pragati
---------

+-----+

1 row in set (0.00 sec)

```
mysql> create VIEW v1 as SELECT Employee.ename from Employee JOIN Emp_company ON
Employee.ename = Emp_company.ename JOIN Company ON Employeecreate VIEW v1 as
SELECT Employee.ename from Employee JOIN Emp_company ON Employee.ename =
Emp_company.ename JOIN Company ON Ecreate VIEW v1 as SELECT Employee.ename from
Employee JOIN Emp_company ON Employee.ename = Emp_company.ename JOIN Company ON
Employee.city = Company.city AND Emp_company.cname = Company.cname;
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from v1;
```

+-----+

ename
-------

+-----+

Priyanka
----------

Rajiv
-------

Sanika
--------

+-----+

3 rows in set (0.01 sec)

```
mysql> CREATE VIEW v2 as SELECT Employee.ename , Employee.city ,
Emp_company.salary FROM Employee JOIN Emp_company ON Employee.ename
= Emp_company.ename;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from v2;
```

+-----+-----+

ename	city	salary
-------	------	--------

Aatish	Pune	7000.00
Dinesh	Mumbai	5500.00
Omkar	Mumbai	5000.00
Pragati	Pune	3000.00
Priyanka	Nagpur	7500.00
Raj	Pune	9000.00
Rajiv	Pune	6000.00
Sanika	Nagpur	4500.00
Sanket	Mumbai	6500.00
Tanmay	Nagpur	8000.00

10 rows in set (0.00 sec)

```
mysql> CREATE INDEX emp_company_ename On Emp_company(ename);
Query OK, 0 rows affected (0.12 sec) Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> CREATE SYNONYM EmpCompanySynonym FOR Employee;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'SYNONYM EmpCompanySynonym FOR Employee' at line 1
```

```
mysql> CREATE table Emp_Synoynm As SELECT * from Emp_company;
Query OK, 10 rows affected (0.08 sec) Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Emp_Synoynm;
```

ename	cname	salary	jdate
Rajiv	ACC	6000.00	2023-01-15
Tanmay	TATA	8000.00	2023-02-10
Dinesh	ACC	5500.00	2023-03-20
Aatish	TATA	7000.00	2023-04-05
Priyanka	BAJAJ	7500.00	2023-01-25
Omkar	ACC	5000.00	2023-03-01
Raj	TATA	9000.00	2023-05-12
Sanket	BAJAJ	6500.00	2023-04-18
Pragati	TATA	3000.00	2023-06-08
Sanika	BAJAJ	4500.00	2023-07-03

10 rows in set (0.00 sec)

```
mysql> CREATE VIEW EmpCompanySynonym AS SELECT * FROM Emp_company;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from EmpCompanySynonym;
```

ename	cname	salary	jdate
Rajiv	ACC	6000.00	2023-01-15
Tanmay	TATA	8000.00	2023-02-10
Dinesh	ACC	5500.00	2023-03-20
Aatish	TATA	7000.00	2023-04-05

Priyanka	BAJAJ	7500.00	2023-01-25
Omkar	ACC	5000.00	2023-03-01
Raj	TATA	9000.00	2023-05-12
Sanket	BAJAJ	6500.00	2023-04-18
Pragati	TATA	3000.00	2023-06-08
Sanika	BAJAJ	4500.00	2023-07-03

+-----+-----+-----+-----+

10 rows in set (0.00 sec)

```
mysql> DROP VIEW EmpCompanySynonym;
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> ALTER table Company ADD(state VARCHAR(20));
Query OK, 0 rows affected (0.04 sec) Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> select * from Company;
```

cname	city	state
ACC	Pune	NULL
Amazon	Nagpur	NULL
BAJAJ	Nagpur	NULL
Credit Suisse	Nagpur	NULL
Flipkart	Mumbai	NULL
Google	Pune	NULL
JP morgon	Pune	NULL
Meta	Mumbai	NULL
TATA	Mumbai	NULL
TCS	Pune	NULL
Wipro	Mumbai	NULL

11 rows in set (0.00 sec)

```
mysql> UPDATE Company SET state = "Maharastra";
Query OK, 11 rows affected (0.01 sec) Rows matched: 11 Changed: 11 Warnings: 0
```

```
mysql> select * from Company;
```

cname	city	state
ACC	Pune	Maharastra
Amazon	Nagpur	Maharastra
BAJAJ	Nagpur	Maharastra
Credit Suisse	Nagpur	Maharastra
Flipkart	Mumbai	Maharastra
Google	Pune	Maharastra
JP morgon	Pune	Maharastra
Meta	Mumbai	Maharastra
TATA	Mumbai	Maharastra
TCS	Pune	Maharastra
Wipro	Mumbai	Maharastra

11 rows in set (0.00 sec)

```
mysql> select * from Manager;
```

```
+-----+-----+  
|  ename  |  mname  |  
+-----+-----+  
| Dinesh  |  ACC    |  
| Raj     |  TATA    |  
+-----+-----+
```

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

```
mysql> truncate Manager;
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> select * from Manager;
```

```
Empty set (0.00 sec)
```

```
mysql> Drop Table Manager;
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql>
```