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Class :TE3

Batch:L3

```
mysql> select * from Student s,PlacementDrive p where p.Drive_id=s.Drive_id;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| s_id | Drive_id | sname      | CGPA | sbranch  | Drive_id | company_name | package | location |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
| 0 | 2 | Satyajeet | 10 | NULL | 2 | Google | 5000000 | Bangalore |
| 1 | 1 | Saurav | 10 | Computer | 1 | Amazon | 4000000 | Pune |
| 2 | 1 | Samruddhi | 10 | Computer | 1 | Amazon | 4000000 | Pune |
| 3 | 2 | Shreyash | 10 | Computer | 2 | Google | 5000000 | Bangalore |
| 34 | 0 | Ram | 5 | IT | 0 | Arista | 60000 | NULL |
| 41 | 2 | Satyajeet | 10 | NULL | 2 | Google | 5000000 | Bangalore |
| 43 | 1 | Satya | 9.5 | NULL | 1 | Amazon | 4000000 | Pune |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
+
7 rows in set (0.01 sec)
```

```
mysql> select * from Student natural join PlacementDrive on Drive_id ;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version for the right syntax to use near 'on Drive_id' at line 1

```
mysql> select s.s_id,s.sname,s.CGPA,s.sbranch,p.company_name from Student s inner join
PlacementDrive p on p.Drive_id=s.Drive_id;
```

```
+-----+-----+-----+-----+-----+
| s_id | sname      | CGPA | sbranch  | company_name |
+-----+-----+-----+-----+-----+
| 0 | Satyajeet | 10 | NULL | Google |
| 1 | Saurav | 10 | Computer | Amazon |
| 2 | Samruddhi | 10 | Computer | Amazon |
| 3 | Shreyash | 10 | Computer | Google |
| 34 | Ram | 5 | IT | Arista |
| 41 | Satyajeet | 10 | NULL | Google |
| 43 | Satya | 9.5 | NULL | Amazon |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)
```

```
mysql> select * from Student natural join PlacementDrive ;
```

Drive_id	s_id	sname	CGPA	sbranch	company_name	package	location
2	0	Satyajeet	10	NULL	Google	5000000	Banglore
1	1	Saurav	10	Computer	Amazon	4000000	Pune
1	2	Samruddhi	10	Computer	Amazon	4000000	Pune
2	3	Shreyash	10	Computer	Google	5000000	Banglore
0	34	Ram	5	IT	Arista	60000	NULL
2	41	Satyajeet	10	NULL	Google	5000000	Banglore
1	43	Satya	9.5	NULL	Amazon	4000000	Pune

7 rows in set (0.01 sec)

```
mysql> select s.sname,s.sbranch from Student s inner join PlacementDrive p on
p.Drive_id=s.Drive_id where p.package = 500000;
```

sname	sbranch
Radhika	Computer

1 row in set (0.00 sec)

```
mysql> select count(*) as NO_OF_COMPANIES from Training where Tyear<2015;
```

NO_OF_COMPANIES
2

1 row in set (0.00 sec)

```
mysql> select s.sname from Student s inner join PlacementDrive p on p.Drive_id=s.Drive_id
where p.company_name="MICROSOFT" and p.location="THANE";
```

sname
RAHUL
RAMESH

2 rows in set (0.00 sec)

```
mysql> select * from Trainings t left join Student s on t.s_id=s.s_id where s.sname="Shantanu"
and t.T_year=2011;
```

T_id	s_id	company_name	T_Fee	T_year	s_id	Drive_id	sname	CGPA	sbranch
2	88	Amdocs	23330	2011	88	5	Shantanu	7	Computer
3	88	Microsoft	23330	2011	88	5	Shantanu	7	Computer

2 rows in set (0.00 sec)

```
mysql>
mysql> select s.sname,t.company_name from Trainings t right join Student s on t.s_id=s.s_id
where t.T_Fee>20000;
+-----+-----+
| sname   | company_name |
+-----+-----+
| Radhika  | Amazon       |
| Shantanu | Amdocs       |
| Shantanu | Microsoft    |
+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql> select s.sname from Student s inner join Trainings t on s.s_id=t.s_id where
t.company_name="Microsoft" and t.T_year=2015;
+-----+
| sname   |
+-----+
| Satyajeet |
+-----+
1 row in set (0.01 sec)
```

```
mysql> select s.sname from Student s right join Trainings t on s.s_id=t.s_id where
t.company_name="Microsoft" and t.T_year=2015;
+-----+
| sname   |
+-----+
| Satyajeet |
| NULL    |
| NULL    |
+-----+
3 rows in set (0.00 sec)
```

```
mysql> create view Stud as select s_id,Drive_id,sname,CGPA from Student;
Query OK, 0 rows affected (0.05 sec)
```

```
mysql> insert into Stud values(23,5,"harish",9);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> insert into Stud values(43,5,"hari",9);
ERROR 1062 (23000): Duplicate entry '43' for key 'PRIMARY'
mysql> insert into Stud values(34,5,"hari",9);
ERROR 1062 (23000): Duplicate entry '34' for key 'PRIMARY'
mysql> insert into Stud values(36,5,"hari",9);
Query OK, 1 row affected (0.09 sec)
```

```
mysql> insert into Stud values(44,2,"Ramesh",8);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from Stud;
+-----+-----+-----+-----+
| s_id   | Drive_id | sname | CGPA |
```

s_id	Drive_id	sname	CGPA
0	2	Satyajeet	10
1	1	Saurav	10
2	1	Samruddhi	10
3	2	Shreyash	10
5	5	Radhika	7
23	5	harish	9
34	0	Ram	5
35	4	Shyam	9
36	5	hari	9
41	2	Satyajeet	10
43	1	Satya	9.5
44	2	Ramesh	8
56	54	RAHUL	9
57	54	RAMESH	8
88	5	Shantanu	7

15 rows in set (0.00 sec)

```
mysql> delete from Stud where Drive_id=1;
```

ERROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`t31342db`.`Trainings`, CONSTRAINT `Trainings_ibfk_1` FOREIGN KEY (`s_id`) REFERENCES `Student` (`s_id`))

```
mysql> delete from Stud where sname="Satya";
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from Stud;
```

s_id	Drive_id	sname	CGPA
0	2	Satyajeet	10
1	1	Saurav	10
2	1	Samruddhi	10
3	2	Shreyash	10
5	5	Radhika	7
23	5	harish	9
34	0	Ram	5
35	4	Shyam	9
36	5	hari	9
41	2	Satyajeet	10
44	2	Ramesh	8
56	54	RAHUL	9
57	54	RAMESH	8
88	5	Shantanu	7

14 rows in set (0.00 sec)

```
mysql> update view Stud set CGPA=10 where s_id in (23,44);
```

ERROR 1146 (42S02): Table 't31342db.view' doesn't exist

```
mysql> update Stud set CGPA=10 where s_id in (23,44);
```

Query OK, 2 rows affected (0.14 sec)

Rows matched: 2 Changed: 2 Warnings: 0

mysql> select * from Stud;

s_id	Drive_id	sname	CGPA
0	2	Satyajeet	10
1	1	Saurav	10
2	1	Samruddhi	10
3	2	Shreyash	10
5	5	Radhika	7
23	5	harish	10
34	0	Ram	5
35	4	Shyam	9
36	5	hari	9
41	2	Satyajeet	10
44	2	Ramesh	10
56	54	RAHUL	9
57	54	RAMESH	8
88	5	Shantanu	7

14 rows in set (0.00 sec)

mysql> select sname,sbranch from Student s right join Trainings t on s.s_id=t.s_id;

sname	sbranch
Satyajeet	COMPUTER
Samruddhi	IT
Radhika	Computer
Shantanu	Computer
Shantanu	Computer
NULL	NULL
NULL	NULL

7 rows in set (0.01 sec)

mysql> select sname,sbranch,t.company_name from Student s left join Trainings t on s.s_id=t.s_id;

sname	sbranch	company_name
Satyajeet	COMPUTER	Microsoft
Saurav	Computer	NULL
Samruddhi	IT	Microdsoft
Shreyash	Computer	NULL
Radhika	Computer	Amazon
harish	NULL	NULL
Ram	IT	NULL

Shyam	Computer	NULL	
hari	NULL	NULL	
Satyajeet	IT	NULL	
Ramesh	NULL	NULL	
RAHUL	Computer	NULL	
RAMESH	IT	NULL	
Shantanu	Computer	Amdocs	
Shantanu	Computer	Microsoft	

15 rows in set (0.00 sec)

mysql>

```

-----
mysql> CREATE TABLE student_name (id INT NOT NULL AUTO_INCREMENT,name CHAR(30) NOT NULL,
PRIMARY KEY (id) );
mysql> INSERT INTO student_name (name) VALUES      ('Saurav'),('Harish'),('MONGO'),      ('Sam'),
('Shyam'),('Ram');

mysql> show index from Training\G;
mysql> explain select * from Training where T_id=1 or T_id=2\G;
mysql> create index ind3 on Training(T_id,Tcompanyname);
mysql> explain select * from Student where sname="Saurav"\G;
mysql> create unique index ind2 on PlacementDrive (Drive_id);

mysql> show index from Student\G;
mysql> create index ind1 on Student(sname);

```

```

-----
mysql> desc details;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| Drive_id       | int(10)       | YES  |     | NULL    |      |
| s_id           | int(10)       | NO   |     | NULL    |      |
| sname          | varchar(20)   | YES  |     | NULL    |      |
| CGPA           | float         | YES  |     | NULL    |      |
| sbranch        | varchar(20)   | YES  |     | NULL    |      |
| company_name   | varchar(20)   | YES  |     | NULL    |      |
| package        | bigint(10)    | YES  |     | NULL    |      |
| location       | varchar(20)   | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

```
mysql> desc drive_details;
```

```
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| company_name   | varchar(20)   | YES  |     | NULL     |       |
| package        | bigint(10)    | YES  |     | NULL     |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> show index from Training\G;
```

```
***** 1. row *****
      Table: Training
      Non_unique: 0
      Key_name: PRIMARY
      Seq_in_index: 1
      Column_name: T_id
      Collation: A
      Cardinality: 8
      Sub_part: NULL
      Packed: NULL
      Null:
      Index_type: BTREE
      Comment:
      Index_comment:
***** 2. row *****
      Table: Training
      Non_unique: 1
      Key_name: ind3
      Seq_in_index: 1
      Column_name: T_id
      Collation: A
      Cardinality: 8
      Sub_part: NULL
      Packed: NULL
      Null:
      Index_type: BTREE
      Comment:
      Index_comment:
***** 3. row *****
      Table: Training
      Non_unique: 1
      Key_name: ind3
      Seq_in_index: 2
      Column_name: Tcompanyname
      Collation: A
      Cardinality: 8
      Sub_part: NULL
      Packed: NULL
      Null: YES
      Index_type: BTREE
```

Comment:

Index_comment:

3 rows in set (0.00 sec)

ERROR:

No query specified

```
mysql> explain select * from Training where T_id=1 or T_id=2\G;
```

```
***** 1. row *****
```

id: 1

select_type: SIMPLE

table: Training

type: range

possible_keys: PRIMARY,ind3

key: PRIMARY

key_len: 4

ref: NULL

rows: 2

Extra: Using where

1 row in set (0.00 sec)

ERROR:

No query specified

```
mysql> show index from Student\G;
```

```
***** 1. row *****
```

Table: Student

Non_unique: 0

Key_name: PRIMARY

Seq_in_index: 1

Column_name: s_id

Collation: A

Cardinality: 12

Sub_part: NULL

Packed: NULL

Null:

Index_type: BTREE

Comment:

Index_comment:

```
***** 2. row *****
```

Table: Student

Non_unique: 1

Key_name: Drive_id

Seq_in_index: 1

Column_name: Drive_id

Collation: A

Cardinality: 12

Sub_part: NULL

Packed: NULL

Null: YES

Index_type: BTREE


```

      Comment:
Index_comment:
***** 3. row *****
      Table: Student
      Non_unique: 1
      Key_name: ind1
      Seq_in_index: 1
      Column_name: sname
      Collation: A
      Cardinality: 12
      Sub_part: NULL
      Packed: NULL
      Null: YES
      Index_type: BTREE
      Comment:
Index_comment:
3 rows in set (0.00 sec)

ERROR:
No query specified

```

```

mysql> select * from student_name
-> ;

```

```

+-----+
| id | name |
+-----+
| 1 | Saurav |
| 2 | Harish |
| 3 | MONGO |
| 4 | Sam |
| 5 | Shyam |
| 6 | Ram |
+-----+

```

```

6 rows in set (0.00 sec)

```

```

mysql> desc student_name;

```

```

+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id    | int(11)   | NO   | PRI | NULL    | auto_increment |
| name  | char(30)  | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+

```

```

2 rows in set (0.00 sec)

```

```

mysql> desc placement_record;

```

```

+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+

```

Field	Field Type	Field Value	Field Value	Field Value	Field Value	Field Value
Name	varchar(20)	YES			NULL	
CGPA	float	YES			NULL	
Branch	varchar(20)	YES			NULL	
company_name	varchar(20)	YES			NULL	

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