Create table employeee:

```
mysql> select *from employee;
+-----+-----------+----------+------+
| Eid | firstname | lastname | Did  |
+-----+-----------+----------+------+
|   1 | srikanth  | patel    |   10 |
|   2 | vinay     | kumar    |   20 |
|   3 | ashok     | kumar    |   30 |
|   4 | abhi      | bhai     |   40 |
+-----+-----------+----------+------+
4 rows in set (0.00 sec)
```

Create table department:

```
mysql> select *from department;
+-----+-----------+
| Did | Dname     |
+-----+-----------+
|  10 | IT        |
|  20 | sales     |
|  30 | marketing |
|  40 | IT        |
+-----+-----------+
4 rows in set (0.00 sec)
```

1) INNER JOIN: Query: SELECT e.Eid, e.firstname, e.lastname, d.Dname FROM employee e

INNER JOIN Department d

ON e.Did = d.Did;

Output:

Eid | first_name | last_name Dname

1 srikanth patel IT

2 vinay kumar Sales

3 ashok kumar marketing

4 abhi bhai IT

2) LEFT OUTER JOIN :

Query: SELECT e.Eid, e.firstname, e.lastname, d.Dname FROM employee e

LEFT OUTER JOIN Department d

ON e.Did = d.Did;

Output:

Eid first_name last_name Dname

1 srikanth patel IT

2 vinay kumar Sales

3 ashok kumar marketing

4 abhi bhai IT

3) RIGHT OUTER JOIN:

Query:SELECT e.Eid, e.firstname, e.lastname, d.Dname FROM employee e

RIGHT OUTER JOIN Department d

ON e.Eid = d.Did;

Output:

Eid firstname lastname Dname

1 srikanth patel IT

4 abhi bhai IT

2 vinay kumar Sales

3 ashok kumar marketing

NULL NULL NULL Marketing

4) FULL OUTER JOIN:

Query: SELECT e.Eid, e.firstname, e.lastname, d.Dname FROM employee e

FULL OUTER JOIN Department d

ON e.Did = d.Did;

Output:

employee_id first_name last_name department_name

1 srikanth patel IT

2 vinay kumar Sales

3 ashok kumar marketing

4 abhi bhai IT

NULL NULL NULL Marketing

Employee table:

employee_id| first_name| last_name| email

1 srikanth patel sri.pat@example.com

2 vinay kumar vinay.km@example.com

3 ashok kumar ashu.km@example.com

4 abhi bahi abhi.bhi@example.com

1) Based on firstName:

Query: SELECT firstname, COUNT(*)

FROM employee

GROUP BY firstname

HAVING COUNT(*) > 1;

Output:

firstname COUNT(*)

Srikanth 2

2) based on email:

query: SELECT email, COUNT(*)

FROM employee

GROUP BY email

HAVING COUNT(*) > 1;

Output

email COUNT(*)

sri.pat@example.com 2

3) Based on firstname and Last Name:

Query: SELECT firstname, lastname, COUNT(*)

FROM employee

GROUP BY firstname, lastname

HAVING COUNT(*) > 1;

Output:

firstname lastname COUNT(*)

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4) Based on firstname and email:

Query: SELECT firstname, email, COUNT(*)

FROM employee

GROUP BY firstname, email

HAVING COUNT(*) > 1;

Output:

first_name email COUNT(*)

Srikanth john.doe@example.com