

Assignment No:- 4 (Joins)

1) Get S# for suppliers who supply project J1.

```
mysql> select * from suppliers as s join projects as p on s.S_id=p.J_id
-> where p.J_id=1;
```

| | | | | | | |
|------|---------|-----------|-------|------|--------|-------|
| S_id | S_Name | Status | City | J_id | J_Name | City |
| 1 | Kanishk | Permanent | Delhi | 1 | Bullet | Delhi |

1 row in set (0.00 sec)

2) Get P# for parts supplied by a supplier in Delhi.

```
mysql> select p.P_id
-> from parts as p
-> join suppliers as s
-> on p.P_id=s.S_id
-> where s.city='Delhi';
```

| |
|------|
| P_id |
| 1 |
| 3 |

2 rows in set (0.00 sec)

3) Get the total quantity of part P1 supplied by S1.

```
mysql> select sh.qty
-> from shipment as sh
```

- > join suppliers as s
- > join parts as p
- > on p.P_id = s.S_id
- > where p.P_id = 1 AND s.S_id = 1;

```
+-----+
| qty |
+-----+
|  5 |
| 1000 |
|  500 |
| 2000 |
+-----+
4 rows in set (0.00 sec)
```

4) Get project names for projects supplied by supplier S1.

```
mysql> select p.J_name
-> from shipment as sh
-> INNER JOIN projects as p ON sh.J_id = p.J_id
-> INNER JOIN suppliers s ON sh.S_id = s.S_id
-> WHERE sh.S_id = 1
-> ;
```

```
+-----+
| J_name |
+-----+
| Car    |
+-----+
1 row in set (0.00 sec)
```

5) Get colors of parts supplied by S1.

```
mysql> select p.P_colour
```

```

-> from shipment sh
-> INNER JOIN parts as p ON sh.P_id = p.P_id
-> INNER JOIN suppliers as s ON sh.S_id = s.S_id
-> WHERE s.S_id = 1
-> ;

```

```
+-----+
```

```
| P_colour |
```

```
+-----+
```

```
| Black   |
```

```
+-----+
```

```
1 row in set (0.00 sec)
```

6) Get all part-color/part-city combinations.

```
mysql> select p.P_colour, s.S_city
```

```
  -> from shipment sh
```

```
  -> INNER JOIN parts as p ON sh.P_id = p.P_id
```

```
  -> INNER JOIN suppliers as s ON sh.S_id = s.S_id
```

```
  -> ;
```

```
+-----+-----+
```

```
| P_colour | S_city |
```

```
+-----+-----+
```

```
| Black   | Delhi  |
```

```
| Silver  | Jammu  |
```

```
| Gray    | Mumbai |
```

```
| Brown   | Delhi  |
```

```
| Gold    | Pune   |
```

```
+-----+-----+
```

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

7) Delete all parts whose color is gold.

```
mysql> delete sh
```

```
-> from shipment sh
```

```
-> INNER JOIN parts as p ON sh.P_id = p.P_id
```

```
-> WHERE p.P_colour = 'gold';
```

Query OK, 1 row affected (0.00 sec)

```
mysql> Delete p
```

```
-> from parts as p
```

```
-> where p.P_colour = 'gold';
```

Query OK, 1 row affected (0.01 sec)

```
mysql> select * from parts;
```

```
+-----+-----+-----+-----+-----+
| P_id | P_name  | P_colour | P_weight | P_city   |
+-----+-----+-----+-----+-----+
| 1 | Motor   | Black    | 20       | Delhi    |
| 2 | Silencer | Silver   | 5        | Mumbai   |
| 3 | Engine  | Gray     | 50       | Punjab   |
| 4 | Seat    | Brown    | 2        | Chandigarh |
+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

8) Create one view

```
mysql> create view heavy_product as
```

```
-> select P_Name,Weight
```

```
-> from parts
```

```
-> where Weight>5;
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> select * from heavy_product;
```

```
+-----+-----+
```

```
| P_Name | Weight |
```

```
+-----+-----+
```

```
| Motor  |    20 |
```

```
| Engine |    50 |
```

```
+-----+-----+
```

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