

Database system & web

TUTORIAL 5

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Q-1)

1)

```
SELECT DISTINCT P.pname
```

```
FROM Parts P, Catalog C
```

```
WHERE P.pid = C.pid;
```

2)

```
SELECT S.sname
```

```
FROM Suppliers S, Parts P, Catalog C
```

```
WHERE P.color='red' AND C.pid=P.pid AND C.sid=S.sid;
```

3)

```
SELECT C.sid
```

```
FROM Catalog C, Parts P
```

```
WHERE (P.color='red' OR P.color='green') AND P.pid=C.pid;
```

4)

```
SELECT S.sid
```

```
FROM Suppliers S
```

```
WHERE S.address='221 Packer Street'
```

```
OR S.sid IN ( SELECT C.sid
```

```
FROM Parts P, Catalog C
```

```
WHERE P.color='red' AND P.pid=C.pid;);
```

5)

```
SELECT P.color,C.cost  
FROM Parts P, Catalog C,Suppliers S  
WHERE C.pid=P.pid AND C.sid=Ssid  
AND S.sname='john';
```

6)

```
SELECT P.pname  
FROM Parts P, Catalog C  
WHERE C.pid=P.pid  
AND C.cost= (SELECT MAX(C1.cost)  
FROM Catalog C1);
```

Q-2)

7)

```
SELECT W.Worker_Id,W.First_Name,W.Salary,B.BONUS_AMOUNT  
FROM Worker W ,Bonus B  
WHERE W.Worker_Id=B.WORKER_REF_ID  
AND W.Salary between 100000 and 500000  
AND B.BONUS_AMOUNT between 5000 and 10000;
```

8)

```
SELECT DISTINCT W.First_NAME,T.Worker_Title  
FROM Worker W, Title T  
WHERE W.Worker_Id=T.WORKER_REF_ID  
AND T.Worker_Title ='Manager';
```

9)

```
SELECT *  
  
FROM Worker W1, Worker W2  
  
WHERE W1.Salary=W2.Salary  
  
      AND W1.Worker_Id<>W2.Worker_Id;
```

10)

```
SELECT W.Salary,B.BONUS_AMOUNT  
  
FROM Worker W ,Bonus B, Title T  
  
WHERE W.Worker_Id=T.WORKER_REF_ID  
  
      AND W.Worker_Id=B.WORKER_REF_ID  
  
      AND T.Worker_Title ='Manager';
```

11)

```
UPDATE Bonus B, Worker W  
  
SET B.BONUS_AMOUNT= B.BONUS_AMOUNT+(W.salary*0.10)  
  
WHERE W.Worker_Id=B.WORKER_REF_ID;
```