

```
CREATE TABLE Employees (
    EmpID INT NOT NULL,
    Name VARCHAR(50) NOT NULL,
    Gender VARCHAR(10) NOT NULL,
    Department VARCHAR(50) NOT NULL,
    PRIMARY KEY (EmpID)
);
```

```
INSERT INTO Employees (EmpID, Name, Gender, Department)
VALUES
    (1, 'X', 'Female', 'Finance'),
    (2, 'Y', 'Male', 'IT'),
    (3, 'Z', 'Male', 'HR'),
    (4, 'W', 'Female', 'IT');
commit;
```

```
select Department ,SUM(CASE WHEN Gender = 'Male' THEN 1 ELSE 0 END)
AS "Num of Male" ,
SUM(CASE WHEN Gender = 'Female' THEN 1 ELSE 0 END) AS "Num of
Female"
from Employees group by Department order by 1;
```

////////////////////////////////////

```
CREATE TABLE MonthlyData (
    Name VARCHAR(50),
    Jan INT,
    Feb INT,
    Mar INT
);
```

```
INSERT INTO MonthlyData (Name, Jan, Feb, Mar)
VALUES
    ('X', 5200, 9093, 3832),
    ('Y', 9023, 8942, 4000),
    ('Z', 9834, 8197, 9903),
    ('W', 3244, 4321, 0293);
commit;
```

```
select name,greatest(Jan,feb,Mar) as "Value" ,
case greatest(jan,feb,mar)
when Jan then 'Jan'
WHEN Feb THEN 'Feb'
WHEN Mar THEN 'Mar'
END as "Month"
from MonthlyData;
```

////////////////////////////////////

```
CREATE TABLE CandidateMarks (  
    Candidate_ID INT,  
    Marks INT  
);
```

```
INSERT INTO CandidateMarks (Candidate_ID, Marks)  
VALUES  
    (1, 98),  
    (2, 78),  
    (3, 87),  
    (4, 98),  
    (5, 78);  
commit;
```

```
select Marks,rank() over( order by Marks desc) as "Rank",  
GROUP_CONCAT(Candidate_ID ORDER BY Marks DESC,Candidate_ID) AS  
Candidate_ID  
from candidateMarks group by Marks;
```

```
////////////////////////////////////
```

```
CREATE TABLE CandidateEmails (  
    Candidate_ID INT,  
    Email VARCHAR(100)  
);
```

```
INSERT INTO CandidateEmails (Candidate_ID, Email)  
VALUES  
    (45, 'abc@gmail.com'),  
    (23, 'def@yahoo.com'),  
    (34, 'abc@gmail.com'),  
    (21, 'bcf@gmail.com'),  
    (94, 'def@yahoo.com');
```

```
commit;
```

```
SET SQL_SAFE_UPDATES = 0;
```

```
DELETE FROM CandidateEmails  
WHERE (Candidate_ID, Email) NOT IN (  
    SELECT Min_Candidate_ID, Email  
    FROM (  
        SELECT MIN(Candidate_ID) AS Min_Candidate_ID, Email  
        FROM CandidateEmails  
        GROUP BY Email
```

```
    ) AS MinEmails  
);  
select * from candidateEmails;
```