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TAS129

1. Given a table of employees, find the number of male and female employees in each department:

```
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;
```

2. Given a table with salaries of employees for different month, find the max amount from the rows with month name:

```
Select Name, CASE  when Jan>=Feb AND Jan>=Mar THEN Jan  
                  when Feb>=Jan AND Feb>=Mar THEN Feb  
                  ELSE Mar  
                END AS Value,  
  
                CASE  when Jan>=Feb AND Jan>=Mar THEN 'Jan'  
                  when Feb>=Jan AND Feb>=Mar THEN 'Feb'  
                  ELSE 'Mar'  
                END AS Month  
From employee_salary;
```

3.
Given the marks obtained by candidates in a test, rank them in proper order.

```
SELECT Marks,  
DENSE_RANK() OVER (ORDER BY Marks DESC) AS `Ranking`,  
GROUP_CONCAT(Candidate_ID ORDER BY Candidate_ID ASC) AS Candidate_ID  
FROM candidate_marks GROUP BY Marks ORDER BY `Ranking`;
```

4.
If same value is repeated for different id, then keep the value that has smallest id and delete all the other rows having same value:

```
DELETE c1 FROM candidate_emails c1  
JOIN candidate_emails c2 ON c1.Email = c2.Email
```

```
AND c1.Candidate_ID > c2.Candidate_ID;
```