SQL Assignment

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

EmpID	Name	Gender	Department
1	X	Female	Finance
2	Y	Male	IT
3	Z	Male	HR
4	W	Female	IT

Output:

Department	Num of male	Num of Female
Finance	0	1
HR	1	0
IT	1	1

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

Name	Jan	Feb	Mar
X	5200	9093	3832
Y	9023	8942	4000
Z	9834	8197	9903
W	3244	4321	0293

Output:

Name	Value	Month
X	9093	Feb
Y	9023	Jan
Z	9903	Mar
W	4321	Feb

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

Candidate_ID	Marks
1	98
2	78
3	87
4	98
5	78

Output:

Marks	Rank	Candidate_ID
98	1	1,4
87	2	3
78	3	2,5

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:

Candidate_ID	Email
45	abc@gmail.com
23	def@yahoo.com
34	abc@gmail.com
21	bcf@gmail.com
94	def@yahoo.com

Output:

Candidate_ID	Email
34	abc@gmail.com
23	def@yahoo.com
21	bcf@gmail.com