Creating table Employees

```
mysql> create table Employees(EMPLOYEE ID int,
    -> FIRST_NAME varchar(20),
    -> LAST_NAME varchar(25),
    -> EMAIL varchar(25),
    -> PHONE_NUMBER varchar(20),
    -> HIRE DATE date,
    -> JOB_ID varchar(10),
   -> SALARY float,
    -> COMMISSION_PCT float,
    -> MANAGER_ID int,
    -> DEPARTMENT_ID int);
Query OK, 0 rows affected (0.10 sec)
```

Select *

From Employees;

+-	mysql> select * from Employees; +											
	EMPLOYEE_ID	FIRST_NAME +	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY +	COMMISSION_PCT	MANAGER_ID +	DEPARTMENT_ID	
İ	100	Steven	King	SKING	971123546	2003-06-17	AD_PRES	24000	0	0	90	
	101	Neena	Kochhar	NKOCHHAR	515123568	1987-06-18	AD_VP	17000	0	100	90	
	102	Lex	De Haan	LDEHAAN	5151234569	1987-06-19	AD_VP	17000	0	100	90	
	103	Alexander	Hunold	AHUNOLD	5904234567	1987-06-20	IT_PROG	9000	0	102	60	
ĺ	104	Bruce	Ernst	BERNST	5904234568	1987-06-21	IT_PROG	6000	0	103	60	
ĺ	105	David	Austin	DAUSTIN	5904234569	1987-06-22	IT_PROG	4800	0	103	60	
+- 6 ı	+											

1. Write a guery to list the number of jobs available in the employees table

Query:

Select count(DISTINCT job id) as Jobs Count

From employees;

```
mysql> Select count(DISTINCT job_id) as Jobs_Count
   -> From employees;
 Jobs_Count
           5 I
1 row in set (0.00 sec)
```

2. Write a query to get the total salaries payable to employees.

Query:

Select sum(salary)

From Employees;

Output:

```
mysql> Select sum(salary)
    -> From Employees;
+-----+
| sum(salary) |
+-----+
| 77800 |
+----+
1 row in set (0.00 sec)
```

3. Write a query to get the minimum salary from employees table

Query:

Select min(salary)

From Employees;

```
mysql> Select min(salary)
-> From Employees;
+-----+
| min(salary) |
+-----+
| 4800 |
+-----+
1 row in set (0.03 sec)
```

4. Write a query to get the maximum salary of an employee working as a Programmer.

Query:

Select max(salary)

From Employees

Where job_id = 'it_prog';

Output:

5. Write a query to get the average salary and number of employees working the department 90.

Query:

Select round(avg(salary),2) as avg_salary , count(*) as no_of_emp

From Employees

Where department id=90;

6. Write a query to get the highest, lowest, sum, and average salary of all employees.

Query:

```
Select ROUND(MAX(salary),0) 'Maximum',
ROUND(MIN(salary),0) 'Minimum',
ROUND(SUM(salary),0) 'Sum',
ROUND(AVG(salary),0) 'Average'
From employees;
```

Output:

7. Write a query to get the number of employees with the same job.

Query:

Select job_id, COUNT(*)

From Employees

Group by job id;

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8. Write a query to get the difference between the highest and lowest salaries.

Query:

```
SELECT MAX(salary) - MIN(salary) DIFFERENCE FROM employees;
```

Output:

```
mysql> SELECT MAX(salary) - MIN(salary) DIFFERENCE
-> FROM employees;
+------
| DIFFERENCE |
+-------
| 19200 |
+------
1 row in set (0.00 sec)
```

9. Write a query to find the manager ID and the salary of the lowest-paid employee for that manager.

Query:

```
Select manager_id, MIN(salary)as Min_Salary
From employees
GROUP BY manager_id
ORDER BY MIN(salary) DESC;
```

```
mysql> Select manager_id, MIN(salary)as Min_Salary
-> From employees
-> GROUP BY manager_id
-> ORDER BY MIN(salary) DESC;

+-----+
| manager_id | Min_Salary |
+-----+
| 0 | 24000 |
| 100 | 17000 |
| 102 | 9000 |
| 103 | 4800 |
+-----+
4 rows in set (0.00 sec)
```

10. Write a query to get the department ID and the total salary payable in each department.

Query:

```
Select department_id, SUM(salary) as Toal_salary From employees GROUP BY department_id;
```

Output:

11. Write a query to get the average salary for each job ID excluding programmer.

Query:

```
Select job_id, AVG(salary) as Avg_Salary
From employees
Where job_id <> 'IT_PROG'
GROUP BY job_id;
```

12. Write a query to get the total salary, maximum, minimum, average salary of employees (job ID wise), for department ID 90 only.

Query:

```
select job_id, SUM(salary) as Total_salary,

AVG(salary) as Avg_salary,

MAX(salary) as Max_Salary,

MIN(salary) as Min_Salary

from employees

where department_id = '90'
```

Output:

GROUP BY job_id;

```
mysql> select job_id, SUM(salary) as Total_salary,
    -> AVG(salary) as Avg_salary, MAX(salary) as Max_Salary, MIN(salary) as Min_Salary
    -> from employees
    -> where department_id = '90'
    -> GROUP BY job id;
  job_id | Total_salary | Avg_salary | Max_Salary | Min_Salary
  AD PRES
                   24000
                                24000
                                              24000
                                                           24000
  AD VP
                   34000
                                17000
                                             17000
                                                           17000
2 rows in set (0.00 sec)
```

13. Write a query to get the job ID and maximum salary of the employees where maximum salary is greater than or equal to \$4000.

Query:

```
select job_id, MAX(salary)
from employees
GROUP BY job_id
HAVING MAX(salary) >=4000;
```

Output:

```
mysql> select job_id, MAX(salary)
    -> from employees
    -> GROUP BY job_id
    -> HAVING MAX(salary) >=4000;

+-----+
| job_id | MAX(salary) |

+----+
| AD_PRES | 24000 |
| AD_VP | 17000 |
| IT_PROG | 9000 |

+----+
3 rows in set (0.03 sec)
```

14. Write a query to get the average salary for all departments employing more than 10 employees.

Query:

```
select department_id, ROUND(AVG(salary),2) as Avg_Salary, COUNT(*) as No_of_emp
```

from employees

GROUP BY department_id

HAVING COUNT(*) > 10;