# **Assignment 17**

Create a table of Employees with below mentioned fields and insert the data and then write the queries to the below questions.

```
EMPLOYEE ID | FIRST NAME | LAST NAME | EMAIL | PHONE NUMBER
| HIRE DATE | JOB ID | SALARY | COMMISSION PCT | MANAGER ID |
DEPARTMENT ID |
+-----
----+-----
| 100 | Steven | King | SKING | 515.123.4567
| 1987-06-17 | AD_PRES | 24000.00 | 0.00 | 0 |
      90 |
90 |
0.00 | 100 |
90 |
| 103 | Alexander | Hunold | AHUNOLD | 590.423.4567
| 1987-06-20 | IT_PROG | 9000.00 | 0.00 | 102 |
                                         0.00 | 102 |
60 I
| 104 | Bruce | Ernst | BERNST | 590.423.4568
| 1987-06-21 | IT_PROG | 6000.00 | 0.00 | 103 |
| 105 | David | Austin | DAUSTIN | 590.423.4569
| 1987-06-22 | IT_PROG | 4800.00 | 0.00 | 103 |
60 |
| 106 | Valli | Pataballa | VPATABAL | 590.423.4560
| 1987-06-23 | IT_PROG | 4800.00 | 0.00 | 103 |
                                         0.00 | 103 |
| 107 | Diana | Lorentz | DLORENTZ | 590.423.5567
| 1987-06-24 | IT_PROG | 4200.00 | 0.00 | 103 |
                                              0.00 | 103 |
| 108 | Nancy | Greenberg | NGREENBE | 515.124.4569
| 1987-06-25 | FI_MGR | 12000.00 | 0.00 | 101 |
                                              0.00 | 101 |
100 |
| 109 | Daniel | Faviet | DFAVIET | 515.124.4169
| 1987-06-26 | FI_ACCOUNT | 9000.00 | 0.00 | 108 |
                                         0.00 | 108 |
100 |
| 110 | John | Chen | JCHEN | 515.124.4269
| 1987-06-27 | FI_ACCOUNT | 8200.00 | 0.00 | 108 |
                                        0.00 | 108 |
100 I
| 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369
| 1987-06-28 | FI_ACCOUNT | 7700.00 | 0.00 | 108 |
                                         0.00 | 108 |
100 |
| 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469
| 1987-06-29 | FI_ACCOUNT | 7800.00 | 0.00 | 108 |
                                          0.00 | 108 |
100 I
| 113 | Luis | Popp | LPOPP | 515.124.4567
| 1987-06-30 | FI_ACCOUNT | 6900.00 | 0.00 | 108 |
100 |
```

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

**Query:-** select count(JobId) as NumberOfJobs from employees;

#### **Output:-**

```
+-----
| NumberOfJobs |
+------
| 16 |
+------
1 row in set (0.00 sec)
```

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

Query: - select sum(Salary) as TotalSalary from employees;

### **Output:-**

```
+-----+
| TotalSalary |
+-----+
| 152500 |
+-----+
1 row in set (0.00 sec)
```

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

Query:- select min(Salary) as MinimumSalary from employees;

#### **Output:-**

```
+----+
| MinimumSalary |
+------
| 3100 |
+------
1 row in set (0.00 sec)
```

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

**Query:-** select max(Salary) from employees where JobId = 'It\_Prog';

#### Output:-

```
+-----
| max(Salary) |
+------
| 17000 |
+------
1 row in set (0.00 sec)
```

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

**Query :-** select avg(Salary)as AverageSalary, count(EmpId)as NumberOfEmp from employees where DeptId = 90;

### Output:-

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

Query: - select avg(Salary) as AverageSalary, sum(Salary) as SumOfSalary, max(Salary)as MaximumSalary, min(Salary)as MinimumSalary from employees;

#### Output:-

```
| AverageSalary | SumOfSalary | MaximumSalary | MinimumSalary | Heronome | MaximumSalary | MinimumSalary | Heronome | Heronome | MinimumSalary | Heronome | Heronome
```

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

**Query:-** Select JobId, count(\*) from employees group by(JobId);

### **Output:-**

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

Query:- Select max(Salary) - min(Salary) Difference from employees;

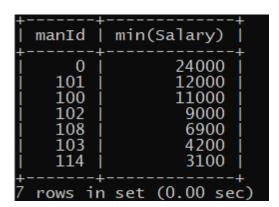
## **Output:-**

```
+-----+
| Difference |
+-----+
| 20900 |
+-----+
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 manId, min(Salary)from employees where manId is not null group by manId order by min(Salary)desc;

### **Output:-**



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

**Query :-** Select DeptId, sum(Salary) as Total from employees group by DeptId;

### **Output:-**

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

**Query :-** select JobId, avg(Salary) from employees where JobId<> 'It\_Prog' group by JobId;

### Output:-

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

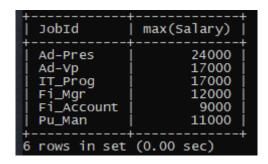
**Query:-** select JobId, sum(Salary)as Total, max(Salary)as MaximumSalary, min(Salary)as MinimumSalary, avg(Salary)as AverageSalary from employees where DeptId=90 group by JobId;

### **Output:-**

+	+		+	+
JobId	Total	MaximumSalary	MinimumSalary	AverageSalary
Ad-Pres   Ad-Vp   IT_Prog	24000 17000 17000	24000 17000 17000	24000 17000 17000	24000   17000   17000
3 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 JobId, max(Salary) from employees group by JobId Having max(Salary) >= 4000;



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

Query:- select avg(Salary), count(\*) from employees group by Deptld having count(\*)>10;

Output:- Empty set (0.00 sec)