

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				
101	Neena	Kochhar	NKOCHHAR	515.123.4568
1987-06-18	AD_VP	17000.00	0.00	100
90				
102	Lex	De Haan	LDEHAAN	515.123.4569
1987-06-19	AD_VP	17000.00	0.00	100
90				
103	Alexander	Hunold	AHUNOLD	590.423.4567
1987-06-20	IT_PROG	9000.00	0.00	102
60				
104	Bruce	Ernst	BERNST	590.423.4568
1987-06-21	IT_PROG	6000.00	0.00	103
60				
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
60				
107	Diana	Lorentz	DLORENTZ	590.423.5567
1987-06-24	IT_PROG	4200.00	0.00	103
60				
108	Nancy	Greenberg	NGREENBE	515.124.4569
1987-06-25	FI_MGR	12000.00	0.00	101
100				
109	Daniel	Faviet	DFAVIET	515.124.4169
1987-06-26	FI_ACCOUNT	9000.00	0.00	108
100				
110	John	Chen	JCHEN	515.124.4269
1987-06-27	FI_ACCOUNT	8200.00	0.00	108
100				
111	Ismael	Sciarra	ISCIARRA	515.124.4369
1987-06-28	FI_ACCOUNT	7700.00	0.00	108
100				
112	Jose Manuel	Urman	JMURMAN	515.124.4469
1987-06-29	FI_ACCOUNT	7800.00	0.00	108
100				
113	Luis	Popp	LPOPP	515.124.4567
1987-06-30	FI_ACCOUNT	6900.00	0.00	108
100				

114	Den	Raphaely	DRAPHEAL	515.127.4561
1987-07-01	PU_MAN	11000.00	0.00	100
30				
115	Alexander	Khoo	AKHOO	515.127.4562
1987-07-02	PU_CLERK	3100.00	0.00	114
30				

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:-

```
+-----+-----+
| AverageSalary | NumberOfEmp |
+-----+-----+
| 19333.33333333332 |          3 |
+-----+-----+
1 row in set (0.00 sec)
```

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 |
+-----+-----+-----+-----+
|          9531.25 |         152500 |          24000 |           3100 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

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

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

Output:-

JobId	count(*)
Ad-Pres	1
Ad-Vp	1
IT_Prog	6
Fi_Mgr	1
Fi_Account	5
Pu_Man	1
Pu_Clerk	1

7 rows in set (0.00 sec)

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:-

manId	min(Salary)
0	24000
101	12000
100	11000
102	9000
108	6900
103	4200
114	3100

7 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 DeptId, sum(Salary) as Total from employees group by DeptId;

Output:-

DeptId	Total
90	58000
60	28800
100	51600
30	14100

4 rows in set (0.00 sec)

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 :-

JobId	avg(Salary)
Ad-Pres	24000
Ad-Vp	17000
Fi_Mgr	12000
Fi_Account	7920
Pu_Man	11000
Pu_Clerk	3100

6 rows in set (0.00 sec)

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	24000	24000	24000	24000
Ad-vp	17000	17000	17000	17000
IT_Prog	17000	17000	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;

JobId	max(Salary)
Ad-Pres	24000
Ad-vp	17000
IT_Prog	17000
Fi_Mgr	12000
Fi_Account	9000
Pu_Man	11000

6 rows in set (0.00 sec)

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 DeptId having count(*)>10;

Output:- Empty set (0.00 sec)