

Lab 08

Question 1:

```
select round(max(salary)) "Maximum", round(min(salary)) "Minimum", round(sum(salary))  
"Sum", round(avg(salary)) "Average" from hr.employees;
```

Question 2:

```
select job_id, round(max(salary)) "Maximum", round(min(salary)) "Minimum",  
round(sum(salary)) "Sum", round(avg(salary)) "Average" from hr.employees group by job_id;
```

Question 3:

```
select job_id, count(*) from hr.employees group by job_id;
```

Question 4:

```
select count(distinct manager_id) "Number of Managers" from hr.employees;
```

Question 5:

```
select max(salary) - min(salary) difference from employees;
```

Question 6:

```
select manager_id, min(salary) from hr.employees where manager_id is not null group by  
manager_id having min(salary) > 6000 order by min(salary) desc;
```

Question 7:

```
select d.department_name "Name", d.location_id "Location", count(*) "Number of Workers",  
round(avg(e.salary),2) "Average Salary" from departments d, employees e where  
e.department_id=d.department_id group by d.department_name,d.location_id;
```

```
SQL> select round(max(salary)) "Maximum", round(min(salary)) "Minimum", round(sum(salary)) "Sum", round(avg(salary))
"Average" from hr.employees;
PRESS RETURN TO CONTINUE
```

Maximum	Minimum	Sum	Average
24000	2100	691416	6462

```
SQL> select job_id, round(max(salary)) "Maximum", round(min(salary)) "Minimum", round(sum(salary)) "Sum", round(avg(s
alary)) "Average" from hr.employees group by job_id;
PRESS RETURN TO CONTINUE
```

JOB_ID	Maximum	Minimum	Sum	Average
AC_MGR	12008	12008	12008	12008
AC_ACCOUNT	8300	8300	8300	8300
IT_PROG	9000	4200	28800	5760
ST_MAN	8200	5800	36400	7280
AD_ASST	4400	4400	4400	4400
PU_MAN	11000	11000	11000	11000
SH_CLERK	4200	2500	64300	3215
AD_VP	17000	17000	34000	17000
FI_ACCOUNT	9000	6900	39600	7920
MK_MAN	13000	13000	13000	13000
PR_REP	10000	10000	10000	10000
FI_MGR	12008	12008	12008	12008
PU_CLERK	3100	2500	13900	2780
SA_MAN	14000	10500	61000	12200
MK_REP	6000	6000	6000	6000
AD_PRES	24000	24000	24000	24000
SA_REP	11500	6100	250500	8350
HR_REP	6500	6500	6500	6500
ST_CLERK	3600	2100	55700	2785

19 rows selected.

```
SQL> select job_id, count(*) from hr.employees group by job_id;
PRESS RETURN TO CONTINUE
```

JOB_ID	COUNT(*)
AC_ACCOUNT	1
AC_MGR	1
AD_ASST	1
AD_PRES	1
AD_VP	2
FI_ACCOUNT	5
FI_MGR	1
HR_REP	1
IT_PROG	5
MK_MAN	1
MK_REP	1
PR_REP	1
PU_CLERK	5
PU_MAN	1
SA_MAN	5
SA_REP	30
SH_CLERK	20
ST_CLERK	20
ST_MAN	5

19 rows selected.

ST_MAN 5

19 rows selected.

```
SQL> select count(distinct manager_id) "Number of Managers" from hr.employees;
PRESS RETURN TO CONTINUE
```

```
Number of Managers
-----
18
```

```
SQL> select max(salary) - min(salary) difference from employees;
PRESS RETURN TO CONTINUE
```

```
DIFFERENCE
-----
21900
```

```
SQL> select manager_id, min(salary) from hr.employees where manager_id is not null group by manager_id having min(salary) > 6000 order by min(salary) desc;
PRESS RETURN TO CONTINUE
```

```
MANAGER_ID MIN(SALARY)
-----
102          9000
205          8300
146          7000
145          7000
108          6900
147          6200
149          6200
148          6100
```

8 rows selected.

```
SQL> select d.department_name "Name", d.location_id "Location", count(*) "Number of Workers", round(avg(e.salary),2) "
Average Salary" from departments d, employees e where e.department_id=d.department_id group by d.department_name,d.location_id;
PRESS RETURN TO CONTINUE
```

Name	Location	Number of Workers	Average Salary
Administration	1700	1	4400
Marketing	1800	2	9500
Sales	2500	34	8955.88
Purchasing	1700	6	4150
Finance	1700	6	8601.33
IT	1400	5	5760
Executive	1700	3	19333.33
Shipping	1500	45	3475.56
Accounting	1700	2	10154
Human Resources	2400	1	6500
Public Relations	2700	1	10000

11 rows selected.

SQL> █