
TOTAL_SALARY

Specialist	0	0	0	30000
30000				

```
SQL> select department_name as "Department",
2 location as "Location",
3 count(employee_id) as "Number Of People",
4 round(avg(salary),2) as "Salary"
5 from emp group by department_name,location;
```

Department	Location	Number Of People	Salary
Tech	Belgium	1	10000
Hr_rep	Japan	1	30000
Devops	China	1	20000
Marketing	Africa	1	100000
Accounts	Brazil	1	6000

```
SQL> select manager_id,min(salary) as min_salary from empl
2 where manager_id is not null
3 group by manager_id having min(salary)>6000
4
```

```
SQL> select manager_id,min(salary) as min_salary from emp
2 where manager_id is not null
3 group by manager_id having min(salary)>6000
4 order by min_salary desc;
```

MANAGER_ID MIN_SALARY

120	100000
115	30000
110	20000
100	10000

SQL> █

```

SQL> select jobtype as job,
2  sum(case when department_id=20 then salary else 0 end) as salary_dept_20,
3  sum(case when department_id=50 then salary else 0 end) as salary_dept_50,
4  sum(case when department_id=80 then salary else 0 end) as salary_dept_80,
5  sum(case when department_id=90 then salary else 0 end) as salary_dept_90,
6  sum(salary) as total_salary from emp
7  where department_id in(20,50,80,90)
8  group by jobtype;

```

JOB	SALARY_DEPT_20	SALARY_DEPT_50	SALARY_DEPT_80	SALARY_DEPT_90
TOTAL_SALARY				
Scientist	0	6000	0	0
6000				
Engineer	0	0	20000	0
20000				
Designer	10000	0	0	0
10000				

JOB	SALARY_DEPT_20	SALARY_DEPT_50	SALARY_DEPT_80	SALARY_DEPT_90
TOTAL_SALARY				
Specialist	0	0	0	30000
30000				

```

SQL> select department_name as "Department",
2  location as "Location",
3  count(employee_id) as "Number Of People",
4  round(avg(salary),2) as "Salary"
5  from emp group by department_name,location;

```

Department	Location	Number Of People	Salary
Tech	Belgium	1	10000
Hr_rep	Japan	1	30000

 Run SQL Command Line

```
SQL> select job_id,count(*) as total_employee from empl
      2 group by job_id;
group by job_id
      *
```

ERROR at line 2:
ORA-00904: "JOB_ID": invalid identifier

```
SQL> select manager_id,count(*) as number_of_managers from empl group by manager_id;
select manager_id,count(*) as number_of_managers from empl group by manager_id
      *
```

ERROR at line 1:
ORA-00904: "MANAGER_ID": invalid identifier

```
SQL> select max(salary)-min(salary) difference from empl;
```

```
DIFFERENCE
-----
      180000
```

```
SQL> select manager_id,min(salary) as min_salary from empl
      2 where manager_id is not null
      3 group by manager_id having min(salary)>6000
      4 order by min_salary desc;
group by manager_id having min(salary)>6000
      *
```

ERROR at line 3:
ORA-00904: "MANAGER_ID": invalid identifier

```
SQL> select manager_id,min(salary) as min_salary from empl
      2
```

```
SQL> select count(*) as total_employee,
      2 count(if(entry_year=1995,1,null)) as hired_in_1995,
      3 count(if(entry_year=1996,1,null)) as hired_in_1996,
      4 count(if(entry_year=1997,1,null)) as hired_in_1997,
      5 count(if(entry_year=1998,1,null)) as hired_in_1998,
      6 from emp;
```

Run SQL Command Line

JOB_ID	SALARY	JOBTYPE	MANAGER_ID	HIRE_DATE	DEPARTMENT_ID
DEPARTMENT_NAME	LOCATION	EMPLOYEE_ID			
Tech	1001	10000 Designer Belgium	100	30-AUG-24 101	20
Accounts	1002	6000 Scientist Brazil	105	06-SEP-24 102	50
Devops	1003	20000 Engineer China	110	02-SEP-24 103	80

JOB_ID	SALARY	JOBTYPE	MANAGER_ID	HIRE_DATE	DEPARTMENT_ID
DEPARTMENT_NAME	LOCATION	EMPLOYEE_ID			
Hr_rep	1004	30000 Specialist Japan	115	29-AUG-24 104	90
Marketing	1005	100000 Developer Africa	120	25-AUG-24 105	60

SQL> select round(max(salary)) as "Maximum",round(min(salary),0) as "minimum",round(sum(salary),0) as "SUM",round(avg(salary))average from emp;

Maximum	minimum	SUM	AVERAGE
100000	6000	166000	33200

SQL> select round(max(salary)) as "Maximum",round(min(salary),0) as "minimum",round(sum(salary),0) as "SUM",round(avg(salary))average from emp
2 group by jobtype;

Maximum	minimum	SUM	AVERAGE
6000	6000	6000	6000
20000	20000	20000	20000
10000	10000	10000	10000
30000	30000	30000	30000
100000	100000	100000	100000