select * from emp;

1)

select min(sal),max(sal) from emp;

MIN(SAL)	MAX(SAL)
800	5000

2)

select distinct sal from emp;

SAL
2450
5000
1300
1250
2850
2975
1100
3000
800
1600

3)

select count(*) from emp where comm is NULL

COUNT(*)
10

4)

SELECT SUM(sal),AVG(sal) "Average" FROM emp;

SUM(SAL)	Average
29025	2073.21428571428571428571428571429

5)

select deptno,max(sal),min(sal) from emp group by deptno;

DEPTNO	MAX(SAL)	MIN(SAL)
30	2850	950
20	3000	800
10	5000	1300

6)

select job,sum(sal),avg(sal) from emp group by job;

JOB	SUM(SAL)	AVG(SAL)
CLERK	4150	1037.5
SALESMAN	5600	1400
PRESIDENT	5000	5000
MANAGER	8275	2758.33333333333333333333333333333333333
ANALYST	6000	3000

7)

select deptno from emp having max(sal)>3000 group by deptno;

DEPTNO
10

8)

select job,deptno from emp group by job,deptno

having sum(sal)<2500

JOB	DEPTNO
CLERK	10
MANAGER	10
CLERK	30
CLERK	20

9)

select job,deptno,count(*) "EMP" from emp group by deptno,job;

JOB	DEPTNO	EMP
CLERK	20	2
SALESMAN	30	4
MANAGER	20	1
CLERK	30	1
PRESIDENT	10	1
MANAGER	30	1

10)

select job,count(*) from emp where job='CLERK' group by job;

JOB	COUNT(*)
CLERK	4

11)

select deptno,count(*) from emp group by deptno;

DEPTNO	COUNT(*)
30	6
20	5
10	3

12)

select count(*) from emp where job='CLERK' and hiredate>'01-JAN-81'

COUNT(*)
3

13)

select sum(sal),sum(comm) from emp;

SUM(SAL)	SUM(COMM)
29025	2200

14)

select job,(12*(sal+NVL(comm,0))) "SAL" from emp where job='MANAGER' ;

JOB	SAL
MANAGER	35700
MANAGER	34200
MANAGER	29400

15)

SELECT AVG(sal) "Average" FROM emp WHERE job='SALESMAN';

Average
1400

16)

select min(ename) from emp;

MIN(ENAME)
ADAMS

17)

select job,min(sal) from emp group by job;

JOB	MIN(SAL)
CLERK	800
SALESMAN	1250
PRESIDENT	5000
MANAGER	2450
ANALYST	3000

18)

select deptno,job,max(sal) from emp group by job,deptno;

DEPTNO	JOB	MAX(SAL)
20	MANAGER	2975
10	PRESIDENT	5000
10	CLERK	1300
30	SALESMAN	1600
20	ANALYST	3000

19)

select deptno,max(sal) from emp group by job,deptno having max(sal)>1500;

DEPTNO	MAX(SAL)
20	2975
10	5000
30	1600
20	3000
30	2850
10	2450

20)

select deptno,min(sal),max(sal) from emp where job='MANAGER' GROUP BY deptno;

DEPTNO	MIN(SAL)	MAX(SAL)
30	2850	2850
20	2975	2975
10	2450	2450

21)

JOB	DEPTNO	MIN(SAL)
MANAGER	20	2975
MANAGER	30	2850

select deptno,min(sal) from emp where job='MANAGER' group by deptno having min(sal)>2500 ;

select deptno,min(sal),max(sal) from emp where job='MANAGER' GROUP BY deptno;

DEPTNO	MIN(SAL)	MAX(SAL)
30	2850	2850
20	2975	2975
10	2450	2450