

1. List all employees who are managers of department 10.

Solution

```
select * from emp
where deptno=10
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7782	CLARK	MANAGER	7839	06/09/1981	2450	-	10
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10

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2. List all employees who do NOT work in department number 10, 20.

Solution

```
select * from emp
where deptno not in(10,20)
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30
7844	TURNER	SALESMAN	7698	09/08/1981	1500	0	30
7900	JAMES	CLERK	7698	12/03/1981	950	-	30

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3. List all employees having first letter in their name 'W' OR 'K' and they do NOT belong to department number 10 OR 20.

Solution

```
select * from emp
where (ename like 'W%' OR ename like 'K%') and (deptno not in (10,20))
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30

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4. List those employees whose name's third last letter is 'I'

Solution

```
select* from emp
where ename like '%I__'
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10

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5. List those employees having first letter in their name 'F' and the name contains exactly 4 letters

.Solution

select * from emp

where ename like 'F%' and length(ename)= 4

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

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6. List those employees whose names starts with 'S' and end with 'H'

Solution

select * from emp

where ename like 'S%H'

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20

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7. Find those employees whose MGR IS 7902, 7566, 7788.

Solution

select * from emp

where mgr in(7902,7566,7788)

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

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8. List all employees who are NOT manager.

Solution

```
select * from emp
where job <> 'MANAGER'
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10
7844	TURNER	SALESMAN	7698	09/08/1981	1500	0	30
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7900	JAMES	CLERK	7698	12/03/1981	950	-	30
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

9. List all employees who are NOT PRESIDENT, ANALYST OR SALESMAN

Solution

```
select * from emp
where job not in('PRESIDENT','ANALYST','SALESMAN')
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30
7782	CLARK	MANAGER	7839	06/09/1981	2450	-	10
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7900	JAMES	CLERK	7698	12/03/1981	950	-	30

10. List all employees with the name that have "LL" in any position
Solution

```
select * from emp
where ename like '%LL%'
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30

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11. Find those employees whose salary is 1600,2975,2850
Solution

```
select * from emp
where sal in (1600,2975,2850)
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30

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12. List those employees having salary between 1000 and 3000 and with no commission
Solution

```
select * from emp
where comm is null and (sal between 1000 and 3000)
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30
7782	CLARK	MANAGER	7839	06/09/1981	2450	-	10
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20
7902	FORD	ANALYST	7566	12/03/1981	3000	-	20

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13. List those employees having salary between 1000 and 2000 and their manager is 7788

Solution

select * from emp

where (sal between 1000 and 3000) and mgr =7788

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20

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14. List those employees where job is CLERK and deptno is 10 OR 30

Solution

select * from emp

where job ='CLERK' and deptno in(10,30)

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7900	JAMES	CLERK	7698	12/03/1981	950	-	30

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15. Find the annual salary of the employees and sort it in descending order

Solution

select ename,sal*12 as Annual_Salary from emp

order by Annual_Salary desc

ENAME	ANNUAL_SALARY
KING	60000
SCOTT	36000
FORD	36000
JONES	35700
BLAKE	34200
CLARK	29400

ALLEN	19200
TURNER	18000
WARD	15000
MARTIN	15000
ADAMS	13200
JAMES	11400
SMITH	9600

16. List all the employees sorted descending by the job and ascending by the salary

Solution

```
select ename,sal*12 as Annual_Salary from emp
order by job desc, sal asc
```

ENAME	ANNUAL_SALARY
WARD	15000
MARTIN	15000
TURNER	18000
ALLEN	19200
KING	60000
CLARK	29400
BLAKE	34200
JONES	35700
SMITH	9600
JAMES	11400

ADAMS	13200
FORD	36000
SCOTT	36000

17. List all distinct jobs from the emp table

Solution

select distinct job from emp

JOB
CLERK
SALESMAN
ANALYST
MANAGER
PRESIDENT

5 rows returned in 0.01 seconds [Download](#)

18. List the employees who have no manager

Solution

select * from emp
where mgr is null

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10

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19. List the distinct managers

Solution

select distinct mgr from emp

MGR
7788
7698
7902
7566
-
7839

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20. List all employees by sorting the hiredate in ascending order

Solution

```
select * from emp  
order by hiredate asc
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	12/17/1980	800	-	20
7499	ALLEN	SALESMAN	7698	02/20/1981	1600	300	30
7521	WARD	SALESMAN	7698	02/22/1981	1250	500	30
7566	JONES	MANAGER	7839	04/02/1981	2975	-	20
7698	BLAKE	MANAGER	7839	05/01/1981	2850	-	30
7782	CLARK	MANAGER	7839	06/09/1981	2450	-	10
7844	TURNER	SALESMAN	7698	09/08/1981	1500	0	30
7654	MARTIN	SALESMAN	7698	09/28/1981	1250	1400	30
7839	KING	PRESIDENT	-	11/17/1981	5000	-	10
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7900	JAMES	CLERK	7698	12/03/1981	950	-	30
7788	SCOTT	ANALYST	7566	12/09/1982	3000	-	20
7876	ADAMS	CLERK	7788	01/12/1983	1100	-	20