

Introduction Oracle SQL and PL/SQL

Module 1/Day 1

SELECT Statement:

1. List tables in your schema and check for existence of DEPT, EMP and SALGRADE tables

SELECT TABLE_NAME FROM USER_TABLES;--If we have admin access

SELECT OWNER, TABLE_NAME FROM ALL_TABLES;

SELECT * FROM SCOTT.DEPT;

SELECT * FROM SCOTT.EMP;

SELECT * FROM SCOTT.SALGRADE;

2. If these tables do NOT exist – execute the script in the embedded DemoBld.SQL file to create and populate the tables .

Executed given script.

3. List all columns and all rows from DEPT

SELECT * FROM DEPT;

DEPTNO	DNAME	LOC
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

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4 rows selected.

4. List all columns and all rows from EMP

SELECT * FROM EMP;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

Download CSV
14 rows selected.

5. List all columns and all rows from SALGRADE

SELECT *FROM SCOTT. SALGRADE;

GRADE	LOSAL	HISAL
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999

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5 rows selected.

6. List employee number, name and salary from employee table

SELECT EMPNO,ENAME,SAL FROM SCOTT.EMP;

EMPNO	ENAME	SAL
7839	KING	5000
7698	BLAKE	2850
7782	CLARK	2450
7566	JONES	2975
7788	SCOTT	3000
7902	FORD	3000
7369	SMITH	800
7499	ALLEN	1600
7521	WARD	1250
7654	MARTIN	1250
7844	TURNER	1500
7876	ADAMS	1100
7900	JAMES	950
7934	MILLER	1300

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14 rows selected.

7. List employee number, name and salary from employee table where salary is > 3000

```
SELECT EMPNO,ENAME,SAL FROM SCOTT.EMP
WHERE SAL>3000;
```

EMPNO	ENAME	SAL
7839	KING	5000

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8. List employees joined after year 1981

```
SELECT * FROM SCOTT.EMP e
WHERE e.HIREDATE > '31-DEC-1981' ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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3 rows selected.

9. List all clerks (JOB = 'CLERK')

SELECT * FROM SCOTT.EMP e WHERE e.JOB='CLERK' ;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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4 rows selected.

10. List employees in the ascending order of salary

SELECT * FROM SCOTT.EMP ORDER BY SAL ;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10

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14 rows selected.

11. List employees in ascending order of job within descending order of deptno

SELECT * FROM SCOTT.EMP ORDER BY JOB , DEPTNO DESC ;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30

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14 rows selected.

12. List distinct departments from employee table

```
SELECT DISTINCT DEPTNO FROM SCOTT.EMP;
```

DEPTNO
30
10
20

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3 rows selected.

13. List distinct jobs in each department from employee table

```
SELECT DISTINCT JOB FROM SCOTT.EMP GROUP BY JOB,DEPTNO
```

JOB
CLERK
SALESMAN
ANALYST
MANAGER
PRESIDENT

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5 rows selected.

14. List name, salary and annual salary in the descending order of annual salary – annual salary is a computed column – SAL * 12

```
SELECT ENAME,SAL, 12*SAL AS ANNUAL_SALARY FROM SCOTT.EMP ORDER BY
ANNUAL_SALARY DESC;
```

ENAME	SAL	ANNUAL_SALARY
SMITH	800	9600
JAMES	950	11400
ADAMS	1100	13200
WARD	1250	15000
MARTIN	1250	15000
MILLER	1300	15600
TURNER	1500	18000
ALLEN	1600	19200
CLARK	2450	29400
BLAKE	2850	34200
JONES	2975	35700
FORD	3000	36000
SCOTT	3000	36000
KING	5000	60000

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14 rows selected.

15. List employees whose salary is not in the range of 2000 and 3000

```
SELECT * FROM SCOTT.EMP
WHERE SAL NOT IN(2000,3000);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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12 rows selected.

15. List name and the deptno for all employees who are NOT members of departments 10 and 20

```
SELECT ENAME,DEPTNO FROM SCOTT.EMP
```

```
WHERE DEPTNO NOT IN(10,20);
```

ENAME	DEPTNO
BLAKE	30
ALLEN	30
WARD	30
MARTIN	30
TURNER	30
JAMES	30

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6 rows selected.

16. List name and the deptno for all employees who are NOT members of departments 10 and 20

```
SELECT * FROM SCOTT.EMP
```

```
WHERE DEPTNO NOT IN (10,20);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30

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6 rows selected.

17. List employees for whom COMM is not applicable

```
SELECT * FROM SCOTT.EMP
```

```
WHERE COMM IS NULL;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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10 rows selected.

18. List employees for whom COMM is applicable

```
SELECT * FROM SCOTT.EMP
```

```
WHERE COMM IS NOT NULL;
```


EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

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4 rows selected.

19. List employees in ascending order of COMM and note how NULLs are sorted

```
SELECT * FROM SCOTT.EMP
```

```
WHERE COMM IS NOT NULL ORDER BY COMM ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30

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4 rows selected.

20. List employees whose names start with "SMITH"

```
SELECT * FROM SCOTT.EMP
```

```
WHERE ENAME LIKE 'SMITH%' ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20

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21. List employees whose name contain the 'MI'

```
SELECT * FROM SCOTT.EMP
```

```
WHERE ENAME LIKE '%MI%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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2 rows selected.

22. List employees whose name start with an _ (underscore) char.

```
SELECT * FROM SCOTT.EMP
WHERE ENAME LIKE '_%';
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7788	SCOTT	ANALYST	7566	19-APR-87	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7876	ADAMS	CLERK	7788	23-MAY-87	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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14 rows selected.

23. List all employees joined between two given dates.

```
SELECT * FROM SCOTT.EMP WHERE HIREDATE BETWEEN TO_DATE ('17-12-1980' , 'dd-mm-yyyy')
AND TO_DATE ('17-11-1981' , 'dd-mm-yyyy');
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30

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9 rows selected.

24. List all clerks in deptno 10

```
SELECT * FROM SCOTT.EMP
WHERE JOB = 'CLERK' AND DEPTNO =10;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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25. List total/sum, maximum, minimum, average of salary from employee table

```
SELECT SUM(SAL) AS TOTALSAL, MAX(SAL) AS MAXSALARY, MIN(SAL) MINSAL,AVG(SAL) AVGSAL
FROM SCOTT.EMP;
```

TOTALSAL	MAXSALARY	MINSAL	AVGSAL
29025	5000	800	2073.214285714285714285714285714286

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26. List average and count of commission of all employees in department 10

```
SELECT AVG(COMM) AVG,COUNT(COMM) FROM SCOTT.EMP
WHERE DEPTNO=10;
```

AVG	COUNT(COMM)
-	0

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27. List department wise no of employees and total salary

```
SELECT DEPTNO,SUM(SAL) TOTALSALARY FROM SCOTT.EMP
GROUP BY DEPTNO;
```

DEPTNO	TOTALSALARY
30	9400
10	8750
20	10875

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3 rows selected.

28. List total salary Job wise within each department

```
SELECT DEPTNO,JOB,SUM(SAL) TOTALSALARY FROM SCOTT.EMP
GROUP BY DEPTNO,JOB;
```

DEPTNO	JOB	TOTAL_SAL
20	MANAGER	2975
10	PRESIDENT	5000
20	ANALYST	6000
10	CLERK	1300
10	MANAGER	2450
30	SALESMAN	5600
20	CLERK	1900
30	MANAGER	2850
30	CLERK	950

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9 rows selected.

29. List department wise total salary for deptno 10 and 20 only

```
SELECT DEPTNO,SUM(SAL) TOTALSALARY FROM SCOTT.EMP
```

```
WHERE DEPTNO IN(10,20)
```

```
GROUP BY DEPTNO;
```

DEPTNO	TOTALSALARY
10	8750
20	10875

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2 rows selected.

30. List department wise total salary where total salary is > 6000

```
SELECT DEPTNO,SUM(SAL) TOTALSAL FROM SCOTT.EMP
```

```
WHERE SUM(SAL) > 6000
```

```
GROUP BY DEPTNO;
```

DEPTNO	TOTALSAL
30	9400
10	8750
20	10875

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3 rows selected.

31. SELECT COUNT(*), COUNT(COMM) FROM EMP; - explain why the two counts are different

COUNT(*) : Gives total number of rows present in Emp table.

COUNT(COMM): li gives count of total number of non null comm rows in EMP table.

Sub Query:

1. List employees whose job is same as that of 'SMITH'

```
SELECT * FROM EMP
```

```
WHERE JOB = (SELECT JOB FROM EMP WHERE ENAME='SMITH')
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7876	ADAMS	CLERK	7788	12-JAN-83	1100	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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4 rows selected.

2. List employees who have joined after 'ADAM'

```
SELECT * FROM EMP WHERE HIREDATE = (SELECT HIREDATE FROM EMP WHERE ENAME='ADAM')
```

no data found

3. List employees who salary is greater than 'SCOTT's salary

```
SELECT * FROM EMP
```

```
WHERE SAL > (SELECT SAL FROM EMP WHERE ENAME='SCOTT')
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10

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4. List employees getting the maximum salary

```
SELECT * FROM EMP ORDER BY SAL DESC
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7876	ADAMS	CLERK	7788	12-JAN-83	1100	-	20
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20

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14 rows selected.

- List employees show salary is > the max salary of all employees in deptno 30

SELECT * FROM EMP

WHERE SAL > (SELECT MAX(SAL) FROM EMP WHERE DEPTNO=30)

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	-	20

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4 rows selected.

- List all employees whose deptno and Job are same as that of employee with empno 7788.

SELECT * FROM EMP WHERE DEPTNO = (SELECT DEPTNO FROM EMP WHERE EMPNO=7788)

AND JOB = (SELECT JOB FROM EMP WHERE EMPNO=7788)

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	-	20

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2 rows selected.

7. List employee who are not managers

SELECT * FROM EMP WHERE JOB NOT IN 'MANAGER'

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7654	MARTIN	SALESMAN	7698	28-SEP-81	1250	1400	30
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7844	TURNER	SALESMAN	7698	08-SEP-81	1500	0	30
7900	JAMES	CLERK	7698	03-DEC-81	950	-	30
7521	WARD	SALESMAN	7698	22-FEB-81	1250	500	30
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7369	SMITH	CLERK	7902	17-DEC-80	800	-	20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	-	20
7876	ADAMS	CLERK	7788	12-JAN-83	1100	-	20
7934	MILLER	CLERK	7782	23-JAN-82	1300	-	10

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11 rows selected.

8. List all managers

SELECT * FROM EMP WHERE JOB='MANAGER'

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7782	CLARK	MANAGER	7839	09-JUN-81	2450	-	10
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20

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3 rows selected.

9. List all employees who earn(salary) more than the average salary in their own department

SELECT * FROM EMP

WHERE SAL > 2916.666666666666666666666666666667

AND DEPTNO = 10

AND DEPTNO = 20

```
SELECT * FROM EMP
```

WHERE SAL>1566.666666666666666666666666666667

AND DEPTNO = 30

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20-FEB-81	1600	300	30
7566	JONES	MANAGER	7839	02-APR-81	2975	-	20
7698	BLAKE	MANAGER	7839	01-MAY-81	2850	-	30
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	-	20
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20

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6 rows selected.

10. List employees whose salary is greater than their manager's salary

```
SELECT * FROM EMP WHERE SAL> All(SELECT SAL FROM EMP WHERE JOB='MANAGER')
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7902	FORD	ANALYST	7566	03-DEC-81	3000	-	20
7788	SCOTT	ANALYST	7566	09-DEC-82	3000	-	20
7839	KING	PRESIDENT	-	17-NOV-81	5000	-	10

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3 rows selected.

11. List details of departments from DEPT table for which there are no employees in EMP table

```
SELECT * FROM DEPT WHERE DEPTNO NOT IN(SELECT DEPTNO FROM EMP)
```

DEPTNO	DNAME	LOC
40	OPERATIONS	BOSTON

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