

Spool File For Oracle Students Prepared By Mr.Balram

SQL> --Get The Details of All The Employees Who Are Earning Equal to The Least Investments of Departments

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3 WHERE Sal IN
  4 (
  5 SELECT MIN(Sal)
  6 FROM Emp
  7 GROUP BY Deptno
  8 );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7900	JAMES	CLERK	950	30
7934	MILLER	CLERK	1300	10

```
SQL> SELECT MIN(Sal)
  2 FROM Emp
  3 GROUP BY Deptno;
```

MIN(SAL)
950
800
1300

```
SQL> INSERT INTO Emp(Empno, Ename, Job, Sal, Deptno)
  2 VALUES(7935, 'RAJESH', 'SALESMAN', 1300, 20);
```

1 row created.

```
SQL> INSERT INTO Emp(Empno, Ename, Job, Sal, Deptno)
  2 VALUES(7936, 'RAKESH', 'ANALYST', 1300, 30);
```

1 row created.

```
SQL> INSERT INTO Emp(Empno, Ename, Job, Sal, Deptno)
  2 VALUES(7937, 'RAJINISH', 'ANALYST', 950, 20);
```

1 row created.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3 WHERE Sal IN
  4 (
  5 SELECT MIN(Sal)
  6 FROM Emp
  7 GROUP BY Deptno
  8 );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7935	RAJESH	SALESMAN	1300	20

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7936	RAKESH	ANALYST	1300	30
7937	RAJINISH	ANALYST	950	20
7369	SMITH	CLERK	800	20
7900	JAMES	CLERK	950	30
7934	MILLER	CLERK	1300	10

6 rows selected.

```
SQL> SELECT Deptno, MIN(Sal) Salmin
2 FROM Emp
3 GROUP BY Deptno;
```

DEPTNO	SALMIN
30	950
20	800
10	1300

```
SQL> ROLLBACK;
```

Rollback complete.

```
SQL> --Get The Details of All The Employees Who Are Earning Equal to The
Highest Investments of Departments.
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Sal IN
4 (
5 SELECT MAX(Sal)
6 FROM Emp
7 GROUP BY Deptno
8* );
```

```
SQL>
```

```
SQL> ED
```

```
Wrote file afiedt.buf
```

```
1 SELECT Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Sal IN
4 (
5 SELECT MAX(Sal)
6 FROM Emp
7 GROUP BY Deptno
8* )
```

```
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7698	BLAKE	MANAGER	2850	30
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10

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7902 FORD ANALYST 3000 20

SQL> --Get The Details of All The Employees Who Are Earning Equal to The Least Investments of Designations.

SQL> ED

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```
1  SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal IN
4  (
5  SELECT MIN(Sal)
6  FROM Emp
7  GROUP BY Job
8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7782	CLARK	MANAGER	2450	10
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10
7902	FORD	ANALYST	3000	20

7 rows selected.

```
SQL> SELECT MIN(Sal)
2  FROM Emp
3  GROUP BY Job;
```

MIN(SAL)
800
1250
5000
2450
3000

SQL> --Get The Details of All The Employees Who Are Earning Equal to The Highest Investments of Designations.

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal IN
4  (
5  SELECT MAX(Sal)
6  FROM Emp
7  GROUP BY Job
8* )
```

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SQL> /

EMPNO	ENAME	JOB	SAL	DEPTNO
7499	ALLEN	SALESMAN	1600	30
7566	JONES	MANAGER	2975	20
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10
7902	FORD	ANALYST	3000	20
7934	MILLER	CLERK	1300	10

6 rows selected.

SQL> --Get The Details of All The Employees Who's Salaries Are Matching With The Recruitment Date of Department 20

SQL> SELECT Empno, Ename, Job, Sal, Deptno

```
2 FROM Emp
3 WHERE Sal IN
4 (
5 SELECT Sal FROM Emp
6 WHERE HireDate IN
7 (
8 SELECT HireDate FROM Emp
9 WHERE Deptno = 20
10 )
11 );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7566	JONES	MANAGER	2975	20
7902	FORD	ANALYST	3000	20
7788	SCOTT	ANALYST	3000	20
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30

6 rows selected.

SQL> SELECT HireDate FROM Emp

```
2 WHERE Deptno = 20;
```

HIREDATE

```
-----
17-DEC-80
02-APR-81
19-APR-87
23-MAY-87
03-DEC-81
```

SQL> SELECT Sal FROM Emp

```
2 WHERE HireDate IN
3 (
4 SELECT HireDate FROM Emp
5 WHERE Deptno = 20
```

```
6      );
```

```
      SAL
-----
      800
     2975
     3000
     1100
     3000
      950
```

6 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1  SELECT Empno, Ename, Job, Sal, HireDate, Deptno
2  FROM Emp
3  WHERE Sal IN
4  (
5  SELECT Sal FROM Emp
6  WHERE HireDate IN
7  (
8  SELECT HireDate FROM Emp
9  WHERE Deptno = 20
10 )
11* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	HIREDATE	DEPTNO
7369	SMITH	CLERK	800	17-DEC-80	20
7566	JONES	MANAGER	2975	02-APR-81	20
7902	FORD	ANALYST	3000	03-DEC-81	20
7788	SCOTT	ANALYST	3000	19-APR-87	20
7876	ADAMS	CLERK	1100	23-MAY-87	20
7900	JAMES	CLERK	950	03-DEC-81	30

6 rows selected.

```
SQL> --Implementing ANY Operator--
SQL> --Display The Details of All The Employees Who's Salaries Are Below
the Highest Salary of The CLERK
SQL> SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal <ANY
4  (
5  SELECT Sal
6  FROM Emp
7  WHERE Job = 'CLERK'
8  );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
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7369	SMITH	CLERK	800	20
7900	JAMES	CLERK	950	30
7876	ADAMS	CLERK	1100	20
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal <
4  (      --Alternate Approach
5  SELECT MAX(Sal)
6  FROM Emp
7  WHERE Job = 'CLERK'
8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30

SQL> --Display The Details of All The Employees Who's Salaries Are Below the Highest Salary of The Department 20.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal <ANY
4  (
5  SELECT Sal
6  FROM Emp
7  WHERE Deptno = 20
8  );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7900	JAMES	CLERK	950	30
7876	ADAMS	CLERK	1100	20
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7934	MILLER	CLERK	1300	10
7844	TURNER	SALESMAN	1500	30
7499	ALLEN	SALESMAN	1600	30
7782	CLARK	MANAGER	2450	10
7698	BLAKE	MANAGER	2850	30
7566	JONES	MANAGER	2975	20

11 rows selected.

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```
SQL> SELECT Sal
  2  FROM Emp
  3  WHERE Deptno = 20;
```

```
      SAL
-----
      800
     2975
     3000
     1100
     3000
```

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal <
  4  (      --Alternate Approach
  5  SELECT MAX(Sal)
  6  FROM Emp
  7  WHERE Deptno = 20
  8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7499	ALLEN	SALESMAN	1600	30
7521	WARD	SALESMAN	1250	30
7566	JONES	MANAGER	2975	20
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7844	TURNER	SALESMAN	1500	30
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7934	MILLER	CLERK	1300	10

11 rows selected.

```
SQL> --Display The Details of All The Employees Who's Salaries Are Above
the Least Salary of The CLERKs.
```

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal >ANY
  4  (
  5  SELECT Sal
  6  FROM Emp
  7  WHERE Job = 'CLERK'
  8  );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
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7839	KING	PRESIDENT	5000	10
7902	FORD	ANALYST	3000	20
7788	SCOTT	ANALYST	3000	20
7566	JONES	MANAGER	2975	20
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7499	ALLEN	SALESMAN	1600	30
7844	TURNER	SALESMAN	1500	30
7934	MILLER	CLERK	1300	10
7521	WARD	SALESMAN	1250	30
7654	MARTIN	SALESMAN	1250	30
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30

13 rows selected.

```
SQL> SELECT Sal
2 FROM Emp
3 WHERE Job = 'CLERK';
```

```
      SAL
-----
      800
     1100
      950
     1300
```

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Sal >
4 (      --Alternate Approach
5 SELECT MIN(Sal)
6 FROM Emp
7 WHERE Job = 'CLERK'
8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7499	ALLEN	SALESMAN	1600	30
7521	WARD	SALESMAN	1250	30
7566	JONES	MANAGER	2975	20
7654	MARTIN	SALESMAN	1250	30
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10
7844	TURNER	SALESMAN	1500	30
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7902	FORD	ANALYST	3000	20

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7934 MILLER CLERK 1300 10

13 rows selected.

SQL> --Display The Details of All The Employees Who's Salaries Are Above
the Least Salary of The Departments

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3 WHERE Sal >ANY
  4 (
  5 SELECT Sal
  6 FROM Emp
  7 GROUP BY Deptno
  8 );
SELECT Sal
      *
```

ERROR at line 5:
ORA-00979: not a GROUP BY expression

SQL> ED
Wrote file afiedt.buf

```
  1 SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3 WHERE Sal >ANY
  4 (
  5 SELECT Sal
  6 FROM Emp
  7 WHERE Deptno = 10
  8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7839	KING	PRESIDENT	5000	10
7902	FORD	ANALYST	3000	20
7788	SCOTT	ANALYST	3000	20
7566	JONES	MANAGER	2975	20
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7499	ALLEN	SALESMAN	1600	30
7844	TURNER	SALESMAN	1500	30

8 rows selected.

SQL> ED
Wrote file afiedt.buf

```
  1 SELECT Empno, Ename, Job, Sal, Deptno
  2 FROM Emp
  3 WHERE Sal >ANY
  4 (
  5 SELECT Sal
```

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```
6 FROM Emp
7 WHERE Deptno = (
8     SELECT Deptno
9     FROM Dept
10    WHERE Dname = 'ACCOUNTING'
11    )
12* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7839	KING	PRESIDENT	5000	10
7902	FORD	ANALYST	3000	20
7788	SCOTT	ANALYST	3000	20
7566	JONES	MANAGER	2975	20
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7499	ALLEN	SALESMAN	1600	30
7844	TURNER	SALESMAN	1500	30

8 rows selected.

```
SQL> ED
Wrote file afiedt.buf
```

```
1 SELECT Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Sal >
4 (
5 SELECT MIN(Sal)
6 FROM Emp
7 WHERE Deptno = (
8     SELECT Deptno
9     FROM Dept
10    WHERE Dname = 'ACCOUNTING'
11    )
12* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7499	ALLEN	SALESMAN	1600	30
7566	JONES	MANAGER	2975	20
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10
7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10
7844	TURNER	SALESMAN	1500	30
7902	FORD	ANALYST	3000	20

8 rows selected.

```
SQL> --Get The Details of All The Employees Who's Salaries Are Matching
With The Salaries of The CLERK
```

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```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal =ANY
  4  (
  5  SELECT Sal
  6  FROM Emp
  7  WHERE Job = 'CLERK'
  8  );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7934	MILLER	CLERK	1300	10

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal IN
  4  (
  5  SELECT Sal
  6  FROM Emp
  7  WHERE Job = 'CLERK'
  8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7934	MILLER	CLERK	1300	10

```
SQL> ED
Wrote file afiedt.buf
```

```
  1  SELECT Empno, Ename, Job, Sal, Deptno
  2  FROM Emp
  3  WHERE Sal =SOME
  4  (
  5  SELECT Sal
  6  FROM Emp
  7  WHERE Job = 'CLERK'
  8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30

Spool File For Oracle Students Prepared By Mr.Balram

7934 MILLER CLERK 1300 10

SQL> --Implementing ALL Operator--

SQL> --Display The Details of All The Employees Who's Salaries Are Above the Highest Salary of The Designations.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Sal >ALL
4 (
5 SELECT Sal
6 FROM Emp
7 WHERE Job = 'SALESMAN'
8 );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7782	CLARK	MANAGER	2450	10
7698	BLAKE	MANAGER	2850	30
7566	JONES	MANAGER	2975	20
7788	SCOTT	ANALYST	3000	20
7902	FORD	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10

6 rows selected.

```
SQL> SELECT Sal
2 FROM Emp
3 WHERE Job = 'SALESMAN';
```

SAL
1600
1250
1250
1500

SQL> ED

Wrote file afiedt.buf

```
1 SELECT Empno, Ename, Job, Sal, Deptno
2 FROM Emp
3 WHERE Sal >
4 ( --Alternate Approach
5 SELECT MAX(Sal)
6 FROM Emp
7 WHERE Job = 'SALESMAN'
8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7566	JONES	MANAGER	2975	20
7698	BLAKE	MANAGER	2850	30
7782	CLARK	MANAGER	2450	10

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7788	SCOTT	ANALYST	3000	20
7839	KING	PRESIDENT	5000	10
7902	FORD	ANALYST	3000	20

6 rows selected.

SQL> --Display The Details of All The Employees Who's Salaries Are Below the Least Salary of The Designations.

```
SQL> SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal <ALL
4  (
5  SELECT Sal
6  FROM Emp
7  WHERE Job = 'SALESMAN'
8  );
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30
7369	SMITH	CLERK	800	20

SQL> ED

Wrote file afiedt.buf

```
1  SELECT Empno, Ename, Job, Sal, Deptno
2  FROM Emp
3  WHERE Sal <
4  (
5  SELECT MIN(Sal)
6  FROM Emp
7  WHERE Job = 'SALESMAN'
8* )
SQL> /
```

EMPNO	ENAME	JOB	SAL	DEPTNO
7369	SMITH	CLERK	800	20
7876	ADAMS	CLERK	1100	20
7900	JAMES	CLERK	950	30

SQL> SPOOL OFF