PRACTICALS ON SUBQUERY

```
   EMP_NO NAME    JOB             MGR HIREDATE        SAL       COMM      DEPT_NO
---------- ------- ---------- ---------- --------- ---------- ---------- ----------
     7369 SMITH   CLERK          7907 17-DEC-80       800          0          20
     7499 ALLEN   SALESMAN       7698 10-FEB-81      1600        300          30
     7566 JONAS   MAMAGER        7839 02-APR-81      2975          0          20
     7654 MARTIN  SALESMAN       7698 28-SEP-81      1250       1400          30
     7698 DLAKE   MAMAGER        7839 08-MAY-81      2850          0          30
     7782 CLARK   MAMAGER        7839 09-JUN-81      2450          0          10
     7788 SCOTT   ANALYST        7566 09-DEC-82      3000          0          20
     7839 KING    PRESIDENT         0 17-NOV-81      5000          0          10
     7844 TURNER  SALESMAN       7698 08-SEP-81      1500          0          30
     7876 ADAMS   CLERK          7788 12-JAN-83      1100          0          20
     7900 JAMES   CLERK          7698 03-DEC-81       950          0          30
     7902 FORD    ANALYST        7566 03-DEC-81      3000          0          20
     7934 MILLER  CLERK          7782 23-JAN-82      1300          0          10
```

1 To get the highest-paid employee information from the Employee table

QUERY: SELECT * FROM employee__ WHERE SAL = (SELECT MAX(SAL) FROM employee__);

```
SQL> SELECT * FROM employee__ WHERE SAL = (SELECT MAX(SAL) FROM employee__);

   EMP_NO NAME    JOB             MGR HIREDATE        SAL       COMM      DEPT_NO
---------- ------- ---------- ---------- --------- ---------- ---------- ----------
     7839 KING    PRESIDENT         0 17-NOV-81      5000          0          10
```

2 Whose employee job is the same as the job of 'SMITH'?

QUERY: SELECT * FROM employee__ WHERE JOB = (SELECT JOB FROM employee__ WHERE NAME = 'SMITH');

```
SQL> SELECT * FROM employee__ WHERE JOB = (SELECT JOB FROM employee__ WHERE NAME =

   EMP_NO NAME    JOB             MGR HIREDATE        SAL       COMM      DEPT_NO
---------- ------- ---------- ---------- --------- ---------- ---------- ----------
     7369 SMITH   CLERK          7907 17-DEC-80       800          0          20
     7876 ADAMS   CLERK          7788 12-JAN-83      1100          0          20
     7900 JAMES   CLERK          7698 03-DEC-81       950          0          30
     7934 MILLER  CLERK          7782 23-JAN-82      1300          0          10
```

3 Whose salary is more than the max salary of the job is "SALESMAN"?

QUERY: select * from employee__ where SAL >(select MAX(SAL) FROM EMPLOYEE__ WHERE JOB='SALESMAN');

```
SQL> select * from employee__ where SAL >( select MAX(SAL) FROM EMPLOYEE__ WHERE JOB='SALESMAN');

   EMP_NO NAME    JOB             MGR HIREDATE        SAL       COMM      DEPT_NO
---------- ------- ---------- ---------- --------- ---------- ---------- ----------
     7566 JONAS   MAMAGER        7839 02-APR-81      2975          0          20
     7698 DLAKE   MAMAGER        7839 08-MAY-81      2850          0          30
     7782 CLARK   MAMAGER        7839 09-JUN-81      2450          0          10
     7788 SCOTT   ANALYST        7566 09-DEC-82      3000          0          20
     7839 KING    PRESIDENT         0 17-NOV-81      5000          0          10
     7902 FORD    ANALYST        7566 03-DEC-81      3000          0          20
```

4 Whose employee job is same as the job of "BLAKE" and who are earning Salary more than

"BLAKE" salary?

QUERY: SELECT * FROM employee__ WHERE JOB = (SELECT JOB FROM employee__ WHERE NAME = 'DLAKE') AND SAL > (SELECT SAL FROM employee__ WHERE NAME = 'DLAKE');

```
SQL> SELECT * FROM employee__ WHERE JOB = (SELECT JOB FROM employee__ WHERE NAME =
> (SELECT SAL FROM employee__ WHERE NAME = 'DLAKE');

    EMP_NO NAME    JOB              MGR HIREDATE       SAL       COMM      DEPT_NO
---------- ------- ---------- --------- --------- ---------- ---------- ----------
      7566 JONAS   MAMAGER         7839 02-APR-81      2975          0          20
```

5 Display senior employee?

QUERY: SELECT * FROM employee__ WHERE HIREDATE = (SELECT MIN(HIREDATE) FROM employee__);

```
SQL> SELECT * FROM employee__ WHERE JOB = (SELECT JOB FROM employee__ WHERE NAME = 'DLAKE') AND SAL
> (SELECT SAL FROM employee__ WHERE NAME = 'DLAKE');

    EMP_NO NAME    JOB              MGR HIREDATE       SAL       COMM    DEPT_NO
---------- ------- ---------- --------- --------- ---------- ---------- ----------
      7566 JONAS   MAMAGER         7839 02-APR-81      2975          0         20

SQL> SELECT * FROM employee__ WHERE HIREDATE = ( SELECT MIN(HIREDATE) FROM employee__);

    EMP_NO NAME    JOB              MGR HIREDATE       SAL       COMM    DEPT_NO
---------- ------- ---------- --------- --------- ---------- ---------- ----------
      7369 SMITH   CLERK           7907 17-DEC-80       800          0         20
```

6 Employee details whose employee job is same as the job of the employee "SMITH", and

"CLARK"?

QUERY: select * from employee__ where JOB in (select JOB from employee__ where NAME ='SMITH' or NAME='CLARK');

```
SQL> select * from employee__ where JOB in (select JOB from employee__ where NAME ='SMITH' or NAME='
CLARK');

    EMP_NO NAME    JOB              MGR HIREDATE       SAL       COMM    DEPT_NO
---------- ------- ---------- --------- --------- ---------- ---------- ----------
      7934 MILLER  CLERK           7782 23-JAN-82      1300          0         10
      7900 JAMES   CLERK           7698 03-DEC-81       950          0         30
      7876 ADAMS   CLERK           7788 12-JAN-83      1100          0         20
      7369 SMITH   CLERK           7907 17-DEC-80       800          0         20
      7782 CLARK   MAMAGER         7839 09-JUN-81      2450          0         10
      7698 DLAKE   MAMAGER         7839 08-MAY-81      2850          0         30
      7566 JONAS   MAMAGER         7839 02-APR-81      2975          0         20
```

7 Display all employees, whose salary is more than any "SALESMAN" salary?

QUERY: SELECT * FROM employee__ WHERE SAL > ANY (SELECT SAL FROM employee__ WHERE JOB = 'SALESMAN');

```
SQL> SELECT * FROM employee__ WHERE SAL > ANY (SELECT SAL FROM employee__ WHERE JOB = 'SALESMAN');

    EMP_NO NAME    JOB              MGR HIREDATE       SAL       COMM    DEPT_NO
---------- ------- ---------- --------- --------- ---------- ---------- ----------
      7839 KING    PRESIDENT          0 17-NOV-81      5000          0         10
      7788 SCOTT   ANALYST         7566 09-DEC-82      3000          0         20
      7902 FORD    ANALYST         7566 03-DEC-81      3000          0         20
      7566 JONAS   MAMAGER         7839 02-APR-81      2975          0         20
      7698 DLAKE   MAMAGER         7839 08-MAY-81      2850          0         30
      7782 CLARK   MAMAGER         7839 09-JUN-81      2450          0         10
      7499 ALLEN   SALESMAN        7698 10-FEB-81      1600        300         30
      7844 TURNER  SALESMAN        7698 08-SEP-81      1500          0         30
      7934 MILLER  CLERK           7782 23-JAN-82      1300          0         10
```

8 Display all employees, whose salary is more than all "SALESMAN" salaries?

QUERY: SELECT * FROM employee__ WHERE SAL > ALL (SELECT SAL FROM employee__ WHERE JOB = 'SALESMAN');

```
SQL> SELECT * FROM employee__ WHERE SAL > ALL (SELECT SAL FROM employee__ WHERE JOB = 'SALESMAN');

    EMP_NO NAME    JOB             MGR HIREDATE        SAL       COMM     DEPT_NO
---------- ------- ----------- --------- --------- ---------- ---------- ----------
      7566 JONAS   MAMAGER        7839 02-APR-81      2975          0          20
      7698 DLAKE   MAMAGER        7839 08-MAY-81      2850          0          30
      7782 CLARK   MAMAGER        7839 09-JUN-81      2450          0          10
      7788 SCOTT   ANALYST        7566 09-DEC-82      3000          0          20
      7839 KING    PRESIDENT         0 17-NOV-81      5000          0          10
      7902 FORD    ANALYST        7566 03-DEC-81      3000          0          20
```

9. find the name (first_name, last_name) and salary of the employees who earn a salary that is

higher than the salary of Clerk . Sort the results of the salary of the lowest to highest

QUERY: SELECT NAME,SAL

FROM employee__

WHERE SAL >all (SELECT SAL FROM employee__ WHERE JOB = 'CLERK')

ORDER BY SAL ASC;

```
SQL> SELECT NAME,SAL
  2   FROM employee__
  3   WHERE SAL >all  (SELECT SAL FROM employee__ WHERE JOB = 'CLERK')
  4   ORDER BY SAL ASC;

NAME          SAL
------- ----------
TURNER       1500
ALLEN        1600
CLARK        2450
DLAKE        2850
JONAS        2975
FORD         3000
SCOTT        3000
KING         5000
```

10 display name and salary of employee who earns more than average salary and works in as analyst job

QUERY:

SELECT * FROM employee__ WHERE SAL > ALL (SELECT AVG(SAL) FROM employee__ WHERE JOB='ANALYST');

```
SQL> SELECT * FROM employee__ WHERE SAL > ALL (SELECT AVG(SAL) FROM  employee__ WHERE JOB='ANALYST')
;

    EMP_NO NAME    JOB             MGR HIREDATE        SAL       COMM     DEPT_NO
---------- ------- ----------- --------- --------- ---------- ---------- ----------
      7839 KING    PRESIDENT         0 17-NOV-81      5000          0          10

SQL> |
```