

# Réponse

```
SQL> prompt EXERCICE 1
----- prompt EXERCICE 1
SQL>
SQL> ALTER SESSION SET NLS_DATE_LANGUAGE = ENGLISH;
Session modifiée.
SQL>
SQL> select *
  2 from emp
  3 where job = 'MANAGER'
  4      and (deptno =20 or deptno =30);
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7566	JONES	MANAGER	7839	02/04/81	2975		20
7698	BLAKE	MANAGER	7839	01/05/81	2850		30

```
SQL> --On peut aussi utiliser IN : and deptno in (20,30)
```

```
> prompt EXERCICE 2
----- prompt EXERCICE 2
SQL>
SQL> select ename, job, hiredate
  2 from emp
  3 where job != 'MANAGER'
  4      and hiredate between '1-JAN-81' and '31-DEC-81' ;
```

ENAME	JOB	HIREDATE
FORD	ANALYST	03/12/81
ALLEN	SALESMAN	20/02/81
WARD	SALESMAN	22/02/81
MARTIN	SALESMAN	28/09/81
KING	PRESIDENT	17/11/81
TURNER	SALESMAN	08/09/81
JAMES	CLERK	03/12/81

7 lignes sélectionnées.

```
SQL>
> prompt EXERCICE 3
----- prompt EXERCICE 3
```

```
SQL> select ename
  2 from emp
  3 where ename like '%M%'
  4      and ename like '%A%';
```

ENAME

-----  
**MARTIN**  
**ADAMS**  
**JAMES**

> prompt EXERCICE 4  
 ----- prompt EXERCICE 4  
 SQL> select ename  
     2 from emp  
     3 where ename like '%A%A%';

**ENAME**  
 -----  
**ADAMS**

SQL> ----- prompt EXERCICE 5  
 SQL>  
 SQL> select \*  
     2 from emp  
     3 where comm is not null ;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7499	ALLEN	SALESMAN	7698	20/02/81	1600	300	30
7521	WARD	SALESMAN	7698	22/02/81	1250	500	30
7654	MARTIN	SALESMAN	7698	28/09/81	1250	1400	30
7844	TURNER	SALESMAN	7698	08/09/81	1500	0	30

> prompt EXERCICE 6  
 ----- prompt EXERCICE 6  
 SQL> select ename,deptno,job,hiredate  
     2 from emp  
     3 order by deptno,job,hiredate desc ;

ENAME	DEPTNO	JOB	HIREDATE
MILLER	10	CLERK	23/01/82
CLARK	10	MANAGER	09/06/81
KING	10	PRESIDENT	17/11/81
SCOTT	20	ANALYST	19/04/87
FORD	20	ANALYST	03/12/81
ADAMS	20	CLERK	23/05/87
SMITH	20	CLERK	17/12/80
JONES	20	MANAGER	02/04/81
JAMES	30	CLERK	03/12/81
BLAKE	30	MANAGER	01/05/81
MARTIN	30	SALESMAN	28/09/81

ENAME	DEPTNO	JOB	HIREDATE
-------	--------	-----	----------

TURNER 30 SALESMAN 08/09/81  
WARD 30 SALESMAN 22/02/81  
ALLEN 30 SALESMAN 20/02/81

14 lignes sélectionnées.

> prompt EXERCICE 7

----- prompt EXERCICE 7

SQL>

SQL> select \*

2 from emp,dept

3 where emp.deptno = dept.deptno

4 and loc = 'DALLAS' ;

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	DEPTNO
DNAME								

-----

LOC

-----

7902	FORD	ANALYST	7566	03/12/81	3000	20	20	RESEARCH
DALLAS								

7369	SMITH	CLERK	7902	17/12/80	800	20	20	RESEARCH
DALLAS								

7566	JONES	MANAGER	7839	02/04/81	2975	20	20	RESEARCH
DALLAS								

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO	DEPTNO
DNAME								

-----

LOC

-----

7788	SCOTT	ANALYST	7566	19/04/87	3000	20	20	RESEARCH
DALLAS								

7876	ADAMS	CLERK	7788	23/05/87	1100	20	20	RESEARCH
DALLAS								

> prompt EXERCICE 8

----- prompt EXERCICE 8

SQL> select emp.ename,emp.hiredate,mgr.ename,mgr.hiredate

2 from emp,emp mgr

3 where emp.mgr = mgr.empno

4 and emp.hiredate < mgr.hiredate ;

ENAME	HIREDATE	ENAME	HIREDATE
-----			

SMITH	17/12/80	FORD	03/12/81
ALLEN	20/02/81	BLAKE	01/05/81
WARD	22/02/81	BLAKE	01/05/81
JONES	02/04/81	KING	17/11/81
BLAKE	01/05/81	KING	17/11/81
CLARK	09/06/81	KING	17/11/81

6 lignes sélectionnées.

SQL>

> prompt EXERCICE 9

----- prompt EXERCICE 9

```
SQL> select emp.ename,emp.hiredate
2  from emp,emp blake
3  where blake.ename = 'BLAKE'
4  and blake.hiredate > emp.hiredate;
```

ENAME	HIREDATE
-------	----------

-----

SMITH	17/12/80
ALLEN	20/02/81
WARD	22/02/81
JONES	02/04/81

```
SQL> --a voir initialement :and blake.hiredate < emp.hiredate;
```

> prompt EXERCICE 10

----- prompt EXERCICE 10

SQL>

```
SQL> select *
2  from emp
3  where hiredate =(select hiredate
4                    from emp
5                    where ename = 'FORD')
6  and ename !='FORD' ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
-------	-------	-----	-----	----------	-----	------	--------

-----

7900	JAMES	CLERK	7698	03/12/81	950	30	
------	-------	-------	------	----------	-----	----	--

> prompt EXERCICE 11

----- prompt EXERCICE 11

SQL>

```
SQL> select *
2  from emp
3  where hiredate < all (select hiredate
4                      from emp
5                      where deptno = 10 );
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
-------	-------	-----	-----	----------	-----	------	--------

```
-----
7698 BLAKE  MANAGER    7839 01/05/81  2850      30
7566 JONES  MANAGER    7839 02/04/81  2975      20
7521 WARD   SALESMAN    7698 22/02/81  1250  500    30
7499 ALLEN  SALESMAN    7698 20/02/81  1600  300    30
7369 SMITH  CLERK       7902 17/12/80   800      20
```

> prompt EXERCICE 12

----- prompt EXERCICE 12

```
SQL> select x.ename
2  from emp x
3  where x.sal > (select sal
4                  from emp
5                  where x.mgr = emp.empno)
6  and x.mgr is not null ;
```

ENAME

```
-----
FORD
SCOTT
```

> prompt EXERCICE 13

```
SQL> select job, count (*) NB_EMP
2  from emp
3  group by job
4  order by count (*) desc ;
```

```
JOB      NB_EMP
-----
SALESMAN      4
CLERK         4
MANAGER       3
ANALYST       2
PRESIDENT     1
```

> prompt EXERCICE 14

----- prompt EXERCICE 14

```
SQL> select ename,sal,deptno
2  from emp
3  where (deptno,sal) in (select deptno,max(sal)
4                          from emp
5                          group by deptno) ;
```

```
ENAME      SAL  DEPTNO
-----
FORD       3000   20
BLAKE      2850   30
```

Scott1

SCOTT	3000	20
KING	5000	10

SQL>

> prompt EXERCICE 15

----- prompt EXERCICE 15

```
SQL> select job,avg(sal) avgsal
2  from emp
3  group by job
4  having avg(sal) = (select min(avg(sal))
5                      from emp
6                      group by job) ;
```

JOB	AVGSAL
-----	--------

-----

CLERK	1037,5
-------	--------

> prompt EXERCICE 16

----- prompt EXERCICE 16

SQL>

```
SQL> update EMP X
2  set SAL = SAL + (select EMP.SAL*0.05
3                      from EMP
4                      where ENAME = 'KING')
5  where job = 'MANAGER' ;
```

3 lignes mises à jour.

SQL> select ENAME, JOB, SAL from EMP ;

ENAME	JOB	SAL
-----		
FORD	ANALYST	3000
SMITH	CLERK	800
ALLEN	SALESMAN	1600
WARD	SALESMAN	1250
JONES	MANAGER	3225
MARTIN	SALESMAN	1250
BLAKE	MANAGER	3100
CLARK	MANAGER	2700
SCOTT	ANALYST	3000
KING	PRESIDENT	5000
TURNER	SALESMAN	1500

ENAME	JOB	SAL
-----		
ADAMS	CLERK	1100

```
JAMES  CLERK      950
MILLER CLERK     1300
```

14 lignes sélectionnées.

```
SQL> rollback;
Annulation (rollback) effectuée.
```

```
> prompt EXERCICE 17
----- prompt EXERCICE 17
```

```
SQL> insert into  SALGRADE
  2 select DEPTNO, min (SAL), max (SAL)
  3 from EMP
  4 group by DEPTNO ;
```

3 lignes créées.

```
SQL> select * from SALGRADE ;
```

GRADE	LOSAL	HISAL
1	700	1200
2	1201	1400
3	1401	2000
4	2001	3000
5	3001	9999
30	950	2850
10	1300	5000
20	800	3000

8 lignes sélectionnées.

```
SQL> rollback;
Annulation (rollback) effectuée.
```

```
> prompt EXERCICE 18
----- prompt EXERCICE 18
```

```
SQL> delete from EMP
  2 where SAL < (select avg (SAL)
  3              from EMP X
  4              where X.DEPTNO = EMP.DEPTNO) ;
```

8 lignes supprimées.

```
SQL> select * from EMP ;
```

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
7902	FORD	ANALYST	7566	03/12/81	3000		20

*Scott1*

7499	ALLEN	SALESMAN	7698	20/02/81	1600	300	30
7566	JONES	MANAGER	7839	02/04/81	2975		20
7698	BLAKE	MANAGER	7839	01/05/81	2850		30
7788	SCOTT	ANALYST	7566	19/04/87	3000		20
7839	KING	PRESIDENT		17/11/81	5000		10

6 lignes sélectionnées.

SQL> rollback;

Annulation (rollback) effectuée.

SQL> ALTER SESSION SET NLS\_DATE\_LANGUAGE = FRENCH;

Session modifiée.