

```
SQL> SELECT *
  2 FROM EMPLOYEES
  3 WHERE COMMISSION_PCT IS NULL
  4 ORDER BY LAST_NAME DESC;
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY
200	Jennifer	Whalen	JWHALEN	515.123.4444	17-SEP-87	AD_ASST	4400
101		10					

2-

```
SQL> SELECT
  2 FIRST_NAME,
  3 LAST_NAME,
  4 SALARY,
  5 DEPARTMENT_ID,
  6 DENSE_RANK() OVER (PARTITION BY DEPARTMENT_ID ORDER BY SALARY DESC)
as dense_rank_num
  7 FROM EMPLOYEES;
```

```
SQL> SELECT
  2 FIRST_NAME,
  3 LAST_NAME,
  4 SALARY,
  5 DEPARTMENT_ID,
  6 RANK() OVER (PARTITION BY DEPARTMENT_ID ORDER BY SALARY
DESC) as rank_num
  7 FROM EMPLOYEES;
```

```
SQL> SELECT
  2 FIRST_NAME,
  3 LAST_NAME,
  4 SALARY,
  5 DEPARTMENT_ID,
  6 ROW_NUMBER() OVER (PARTITION BY DEPARTMENT_ID ORDER BY S
ALARY DESC) as row_num
  7 FROM EMPLOYEES;
```

3)

```
SQL> SELECT
  2     LAST_NAME || ' ' || FIRST_NAME as "nom et prénom",
  3     DEPARTMENT_ID as "numéro département"
  4 FROM EMPLOYEES
  5 WHERE DEPARTMENT_ID = 30;
```

nom et prénom	numéro département
Raphaely Den	30
Khoo Alexander	30
Baida Shelli	30
Tobias Sigal	30
Himuro Guy	30

4)

```
SQL> SELECT
  2     DEPARTMENT_ID as "ID DEPT",
  3     SUBSTR(DEPARTMENT_NAME, 1, 3) || '.' as "NOM DEPT",
  4     LOCATION_ID as "LOCATION"
  5 FROM DEPARTMENTS
  6 WHERE DEPARTMENT_ID IN (10, 20, 30, 40, 50);
```

ID DEPT	NOM DEPT	LOCATION
10	Adm.	1700
20	Mar.	1800
30	Pur.	1700
40	Hum.	2400
50	Shi.	1500

5)

```
SQL> SELECT
  2     FIRST_NAME || ' ' || LAST_NAME as employee_name,
  3     CASE
  4         WHEN EXTRACT(YEAR FROM HIRE_DATE) = 1998 THEN 'NEEDS
REVIEW'
  5         ELSE 'NOT THIS YEAR'
  6     END as REVIEW
  7 FROM EMPLOYEES;
```

EMPLOYEE_NAME	REVIEW
Steven King	NOT THIS YEAR

6)

```
SQL> SELECT
  2     FIRST_NAME,
  3     LAST_NAME,
  4     EXTRACT(YEAR FROM HIRE_DATE) as annee,
  5     TO_CHAR(HIRE_DATE, 'Month') as mois,
  6     TO_CHAR(HIRE_DATE, 'Q') as trimestre
  7 FROM EMPLOYEES
  8 ORDER BY EXTRACT(YEAR FROM HIRE_DATE) DESC;
```

FIRST_NAME	LAST_NAME	ANNEE
MOIS	T	
Hazel	Philtanker	2000
February	1	

7)

```
SQL> SELECT
  2     LAST_NAME || ' ' || FIRST_NAME as "nom et prénom",
  3     ROUND(MONTHS_BETWEEN(SYSDATE, HIRE_DATE)) as "Ancienneté"
  4 FROM EMPLOYEES
  5 WHERE DEPARTMENT_ID = 30;
```

nom et prénom	Ancienneté
Raphaely Den	374
Khoo Alexander	369

Partie2:

1)

```
SQL> SELECT
  2     MAX(SALARY) as salaire_maximum,
  3     MIN(SALARY) as salaire_minimum
  4 FROM EMPLOYEES;
```

SALAIRE_MAXIMUM	SALAIRE_MINIMUM
24000	2100

2)

```
SQL> SELECT
  2     DEPARTMENT_ID,
  3     ROUND(AVG(SALARY), 2) as salaire_moyen
  4 FROM EMPLOYEES
  5 GROUP BY DEPARTMENT_ID;
```

DEPARTMENT_ID	SALAIRE_MOYEN
100	8600
30	4480
90	19333.33
20	9500
70	10000

3)

```
SQL> SELECT
  2     DEPARTMENT_ID as "identifiant",
  3     COUNT(*) as "nbr d'employés"
  4 FROM EMPLOYEES
  5 GROUP BY DEPARTMENT_ID
  6 ORDER BY DEPARTMENT_ID;
```

identifiant	nbr d'employés
10	1
20	2
30	5
40	1

4)

```
SQL> SELECT
  2     DEPARTMENT_ID as "identifiant",
  3     COUNT(*) as "nbr d'employés"
  4 FROM EMPLOYEES
  5 GROUP BY DEPARTMENT_ID
  6 ORDER BY DEPARTMENT_ID;
```

identifiant	nbr d'employés
10	1
20	2
30	5
40	1
50	25
60	5
70	1
80	11
90	3
100	6
110	2

```
SQL> SELECT
  2     DEPARTMENT_ID as "identifiant",
  3     COUNT(*) as "nbr d'employés"
  4 FROM EMPLOYEES
  5 WHERE DEPARTMENT_ID IS NOT NULL
  6 GROUP BY DEPARTMENT_ID
  7 ORDER BY DEPARTMENT_ID;
```

identifiant	nbr d'employés
10	1
20	2
30	5
40	1
50	25
60	5
70	1
80	11
90	3
100	6
110	2