1)

2)

```
SQL> SELECT UPPER(first_name) AS first_name, UPPER(last_name) AS last_name
2 FROM employees
3 WHERE last_name LIKE 'A%';
no rows selected
```

3)

```
SQL> SELECT ROWNUM, last_name, first_name, salary, department_id
2 FROM (SELECT last_name, first_name, salary, department_id
3 FROM employees
4 ORDER BY salary DESC);
```

```
ROWNUM

LAST_NAME

FIRST_NAME

SALARY DEPARTMENT_ID

1
Johnson Alice
6000

ROWNUM

LAST_NAME

FIRST_NAME

SALARY DEPARTMENT_ID

2
Smith
Bob
5000
```

```
SQL> SELECT employee_id, last_name, first_name, hire_date,
2 EXTRACT(YEAR FROM hire_date) AS hire_year,
3 CASE WHEN EXTRACT(MONTH FROM hire_date) BETWEEN 1 AND 6 THEN 1 ELSE 2 END AS hire_semester,
4 CASE WHEN EXTRACT(MONTH FROM hire_date) BETWEEN 1 AND 3 THEN 1
5 WHEN EXTRACT(MONTH FROM hire_date) BETWEEN 4 AND 6 THEN 2
6 WHEN EXTRACT(MONTH FROM hire_date) BETWEEN 7 AND 9 THEN 3
7 ELSE 4 END AS hire_quarter
8 FROM employees
9 ORDER BY hire_year DESC;
```

```
EMPLOYEE_ID
LAST_NAME
FIRST_NAME
HIRE_DAT HIRE_YEAR HIRE_SEMESTER HIRE_QUARTER
        102
Smith
Bob
01/02/21
              2021
                                1
                                             1
EMPLOYEE_ID
LAST_NAME
FIRST_NAME
HIRE_DAT HIRE_YEAR HIRE_SEMESTER HIRE_QUARTER
        101
Johnson
Alice
01/01/20
              2020
                                1
                                             1
```

5)

7)

```
SQL> SELECT COUNT(*)
2 FROM employees
3 WHERE EXTRACT(YEAR FROM hire_date) = 2000;

COUNT(*)
------
0
```

8)

```
SQL> SELECT location_id, COUNT(department_id) AS department_count
2 FROM departments
3 GROUP BY location_id
4 HAVING COUNT(department_id) > 2;
no rows selected
```