

## Exercise 1: SQL fundamentals

### Question 1

```
SELECT *
```

```
FROM employees;
```

### Question 2

```
SELECT DISTINCT department
```

```
FROM employees;
```

### Question 3

```
SELECT first_name,
```

```
last_name,
```

```
Salary
```

```
FROM employees
```

```
ORDER BY salary DESC;
```

### Question 4

```
SELECT first_name,
```

```
last_name,
```

```
Salary
```

```
FROM employees
```

```
ORDER BY salary DESC
```

```
LIMIT 5;
```

### Question 5

```
SELECT first-name,  
       last-name,  
       department  
  FROM employees  
 WHERE department = 'IT';
```

### Question 6

```
SELECT first-name,  
       last-name,  
       salary,  
       department  
  FROM employees  
 WHERE department = 'Finance'  
   AND salary > 58,000;
```

### Question 7

```
SELECT first-name,  
       last-name,  
       salary,  
       department  
  FROM employees  
 WHERE department = 'HR' OR department = 'Marketing';
```

### Question 8

```
SELECT first-name,  
       last-name,  
       department  
FROM   employees  
WHERE  department NOT 'IT';
```

### Question 9

```
SELECT first-name,  
       last-name,  
       department,  
FROM   employees  
WHERE  department IN ('HR', 'IT', 'finance');
```

### Question 10

```
SELECT first-name,  
       last-name,  
       department,  
       salary,  
       city  
FROM   employees  
WHERE  department = 'IT', AND salary > 50,000  
      AND city = 'New York';
```

### Question 14

```
SELECT first_name,  
       last_name,  
       department,  
       city  
FROM employees  
WHERE city IN ('Los Angeles', 'Chicago') AND department  
      IN 'IT', 'Marketing'  
LIMIT 3;
```