Exercise 1: SQL Fundamentals Answers
Database. employees_db
Table . employees

1. SELECT Statement

```
SELECT *
FROM employees;
```

2. SELECT DISTINCT statement

```
SELECT DISTINCT department
FROM employees;
```

Expected Output:

department
IT
HR
Finance
Marketing

3. ORDER BY statement

```
SELECT first name,
       last-name
       salary

FROM employees
ORDER BY salary DESC;
```

Expected Output:

First-name	last-name	salary
Emily	Davis	62 000
Mike	Johnson	60000
Robert	Wilson	59 000

4. LIMIT statement

```
SELECT first-name,
       last-name,
       salary

FROM employees
ORDER BY salary DESC
LIMIT 5;
```

Expected Outcome:

First-name	last-name	salary
Emily	Davis	62000
Mike	Johnson	60000
Robert	Wilson	59000
John	Doe	55000
Sarah	Brown	53000

5. WHERE statement

```
SELECT first-name,
       last-name,
       department

FROM employees
WHERE department = 'IT';
```

Expected Outcome:

First-name	last-name	department
John	Doe	IT
Sarah	Brown	IT

6. AND statement

```
SELECT first-name, last-name
       last-name,
       department,
       salary

FROM employees
```

```
WHERE department = 'Finance'
AND salary > 58000;
```

Expected outcome:

First-name	last-name	department	salary
Mike	Johnson	Finance	60 000

7. OR statement

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

Expected outcome:

First-name	last-name	department
Jane	Smith	HR
Jessica	Moore	HR
David	White	Marketing

8. NOT statement

```
SELECT first-name,
       last-name,
       department

FROM employees
WHERE NOT department = 'IT';
```

Expected Outcome:

First-name	last-name	department
Jane	Smith	HR
Mike	Johnson	Finance

9. IN statement

```
SELECT first_name,
       last_name,
       department
FROM employees
WHERE department IN ('HR', 'IT', 'Finance');
```

Expected outcome:

First_name	last_name	department
John	Doe	IT
Jane	Smith	HR
Robert	Wilson	Finance
mike	Johnson	Finance

10. Combining conditions

```
SELECT first_name,
       last_name,
       department,
       salary,
       city
FROM employees
WHERE department = 'IT'
AND salary > 50000
AND city = 'New York'
```

Expected outcome:

First_name	last_name	department	salary	city
John	Doe	IT	55000	New York