

<u>id</u>	<u>department</u>	<u>salary</u>	<u>hire-date</u>
6	IT	62000	2015-02-14
5	Marketing	52000	2016-04-10
8	HR	51000	2018-05-22
1	IT	55000	2018-06-15
7	IT	53000	2021-03-25
9	Marketing	53000	2022-06-01

14. SELECT first-name,  
           last-name,  
           department,  
           city  
 FROM employee  
 WHERE city IN ('Chicago', 'Los Angeles')  
 AND department IN ('IT', 'Marketing')  
 LIMIT 3;

<u>first-name</u>	<u>last-name</u>	<u>department</u>	<u>city</u>
Emily	Davis	IT	Chicago
Daniel	Clark	Marketing	Chicago

11. SELECT first-name,  
       last-name,  
       department,  
       Salary  
 FROM employees  
 WHERE department = 'Finance' OR department = 'Marketing'  
 AND salary > 52 000  
 ORDER BY salary DESC;

first-name	last-name	department	salary
Robert	Wilson	Finance	59 000
Daniel	Clark	Marketing	53 000

12. SELECT DISTINCT city  
 FROM employees  
 WHERE department NOT IN ('IT', 'HR');

city
Los Angeles
San Francisco
Houston
Chicago

13. SELECT id,  
       department,  
       Salary,  
       hire-date  
 FROM employees  
 WHERE department NOT IN ('Finance')  
 AND salary > 50 000  
 ORDER BY hire-date ASC;

first-name	last-name	salary
Emily	Davis	62000
Mike	Johnson	60000
Robert	Wilson	59000

\*. SELECT salary

4. SELECT first-name,

last-name

salary

FROM employees

ORDER BY salary DESC

LIMIT 5;

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

5. SELECT first-name,

last-name,

department

FROM employees

WHERE department = 'IT'

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

6. SELECT first-name,  
           last-name,  
           department,  
           Salary  
 FROM employees  
 WHERE department = 'Finance'  
 AND salary > 58 000

first-name	last-name	department	Salary
Mike	Johnson	Finance	60 000

7. SELECT first-name,  
           last-name,  
           department  
 FROM employees  
 WHERE department = 'HR' OR department = 'Marketing'

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

8. SELECT first-name,  
           last-name,  
           department  
 FROM employees  
 WHERE department != 'IT';

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

a. SELECT first-name,  
last-name,  
department  
FROM employees  
WHERE department IN ('HR', 'IT', 'Finance');

first-name	last-name	department
John	Doe	IT
Jane	Smith	HR
Robert	Wilson	Finance
Mike	Johnson	Finance

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

first-name	last-name	department	Salary	city
John	Doe	IT	55000	New York

## Exercise 1 - SQL Fundamentals

1. `SELECT *  
FROM employees;`

id	first-name	last-name	department	salary	hire-date	city
1	John	Doe	IT	55000	2018-06-15	New York
2	Jane	Smith	HR	48000	2019-07-20	Chicago
3	Mike	Johnson	Finance	60000	2017-09-30	Los Angeles
4	Sarah	Brown	IT	53000	2021-03-25	New York
5	David	White	Marketing	52000	2016-04-10	San Francisco
6	Emily	Davis	IT	62000	2015-02-14	Chicago
7	Robert	Wilson	Finance	59000	2019-10-01	Houston
8	Jessica	Moore	HR	51000	2018-05-22	Los Angeles
9	Daniel	Clark	Marketing	53000	2022-06-01	Chicago
10	Laura	Hall	IT	50000	2020-08-10	San Francisco

2. `SELECT DISTINCT department  
FROM employees;`

department
IT
HR
Finance
Marketing

3. `SELECT first-name,  
 last-name,  
 salary  
 FROM employees  
 ORDER BY salary DESC;`