

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

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

first-name	last-name	department	city
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	62 000
Mike	Johnson	60 000
Robert	Wilson	59 000

4. ~~SELECT salary;~~

4. SELECT first-name,
last-name,
salary
FROM employees
ORDER BY salary DESC
LIMIT 5;

first-name	last-name	salary
Emily	Davis	62 000
Mike	Johnson	60 000
Robert	Wilson	59 000
John	Doe	55 000
Sarah	Brown	53 000

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

9. 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;