

Nolwazi Ndiweni - Exercise 1

Database: employees_db

ID	firstname	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	Jackson	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	2022-06-05	Chicago
10	Laura	Hall	IT	50000	2020-08-10	San Francisco

Qn 1: write a SQL query to retrieve all columns from the employees table.

Solution

SELECT * FROM employees_db;

Qn2: write a SQL query to find all the unique departments in the employees table

Solution

SELECT DISTINCT department
FROM employees;

3. write a SQL query to retrieve all employees first and last names, order by salary in descending order.

SELECT first_name,
 last_name,
 salary
FROM employees
ORDER BY salary DESC;

4. Write a SQL query to retrieve the top 5 highest paid employees

```
SELECT first_name,  
       last_name,  
       salary  
FROM employees  
ORDER BY salary DESC  
LIMIT 5;
```

5. Write a SQL query to find employees who work in the IT department

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

6. Write a SQL query to find employees who work in the finance department
AND the marketing department. have a salary greater than 50,000

```
SELECT *  
FROM employees  
WHERE department IN ('Finance') AND salary > 50000;
```

7. Write a SQL query to find employees who work in the HR department
OR the marketing department

```
SELECT *  
FROM employees  
WHERE department IN ('HR', 'Marketing');
```

8. Write a SQL query to find employees who do not work in the IT department

```
SELECT *  
FROM employees  
WHERE department NOT IN ('IT');
```

9. Write a SQL query to find employees who are in the HR, IT or Finance department.

SELECT *

FROM employees

WHERE department IN ('HR', 'IT', 'Finance');

10. Write a SQL query to find employees who are in the IT department, have a salary greater than 50000 and are located in New York.

SELECT *

FROM employees

WHERE department = 'IT'

AND salary > 50000

AND location = 'New York';

11. Write a SQL query to retrieve the first and last name of employees who work in the Finance or Marketing, earn more than 52000 and order the result by salary in descending order.

SELECT first_name,
last_name

FROM employees

WHERE department IN ('IT', 'Marketing')

AND salary > 52000

ORDER BY salary DESC;

12. Write a SQL query to retrieve find all the unique cities where employees work, excluding those in the IT and HR departments.

SELECT DISTINCT city

FROM employees

WHERE department NOT IN ('IT', 'HR')