



ASSIGNMENT TITLE

Filtering and Sorting

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Institute : PW Skills

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Question 1: Show employees working in either the 'IT' or 'HR' departments.

SQL Query:

The screenshot shows a SQL query editor interface. At the top, there are tabs for 'Query' (selected), 'Query History', and 'Scratch Pad'. The 'Query' tab contains the following SQL code:

```
1 SELECT *
2 FROM Employees
3 WHERE Department IN ('IT', 'HR');
4
```

Below the query editor, there are tabs for 'Data Output' (selected), 'Messages', and 'Notifications'. The 'Data Output' tab shows a table structure with the following columns:

empid	empname	department	city	salary	hiredate
[PK] integer	character varying (50)	character varying (50)	character varying (50)	integer	date

Explanation:

The `IN` operator checks whether the department is either IT or HR. It returns all employees belonging to these two departments.

Question 2: Retrieve employees whose department is in 'Sales', 'IT', or 'Finance'.

SQL Query:

Query

Query History

1

2

3

4

SELECT *

FROM Employees

WHERE Department IN ('Sales', 'IT', 'Finance');

Data Output

Messages

Notifications

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SQL

empid	empname	department	city	salary	hiredate
[PK] integer	character varying (50)	character varying (50)	character varying (50)	integer	date

Explanation:

Multiple departments are filtered using IN for cleaner, readable syntax.

Question 3: Display employees whose salary is between ₹50,000 and ₹70,000.

SQL Query:

Query

Query History

1

2

3

4

SELECT *

FROM Employees

WHERE Salary BETWEEN 50000 AND 70000;

Data Output

Messages

Notifications

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SQL

empid	empname	department	city	salary	hiredate
[PK] integer	character varying (50)	character varying (50)	character varying (50)	integer	date

Explanation:

The BETWEEN operator is inclusive of both boundary values.

Question 4: List employees whose names start with the letter 'A'.

SQL Query:

The screenshot shows an SQL IDE interface. At the top, there are tabs for 'Query' and 'Query History'. The 'Query' tab is active, displaying a SQL query in a text editor with line numbers 1 through 4. The query is:
1 SELECT *
2 FROM Employees
3 WHERE EmpName LIKE 'A%';
4
Below the query editor, there are tabs for 'Data Output', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing a table schema. The schema has six columns:
- empid: [PK] integer
- empname: character varying (50)
- department: character varying (50)
- city: character varying (50)
- salary: integer
- hiredate: date

Explanation:

A% matches names beginning with A (example: Aman, Arjun, Anjali).

Question 5: Find employees whose names contain the substring 'an'.

SQL Query:

Two filters are applied: (1) City must be Delhi or Mumbai; (2) Salary > 55,000.

Question 7: Display all employees except those from the 'HR' department.

SQL Query:



Explanation:

The <> operator excludes HR employees.

Question 8: Get all employees hired between 2019 and 2022, ordered by HireDate (oldest first).

SQL Query:

Query

Query History

1

SELECT *

2

FROM Employees

3

WHERE HireDate BETWEEN '2019-01-01' AND '2022-12-31'

4

ORDER BY HireDate ASC;

5

Data Output

Messages

Notifications

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SQL

empid

[PK] integer

empname

character varying (50)

department

character varying (50)

city

character varying (50)

salary

integer

hiredate

date

Explanation:

- BETWEEN is inclusive of both years.
- ORDER BY ASC shows the oldest employees first.