

Task 3: Writing Basic SELECT Queries

Objective: Extract data from one or more tables.

Tools: DB Browser for SQLite / MySQL Workbench

Deliverables: SQL script with SELECT, WHERE, ORDER BY, LIMIT

Hints/Mini Guide:

1. Use SELECT * and specific columns
2. Apply WHERE, AND, OR, LIKE, BETWEEN
3. Sort with ORDER BY

Example SQL Code and Output:

Query: `SELECT * FROM employees;`

Output:

id	name	department	salary
1	Alice	HR	50000
2	Bob	IT	60000
3	Charlie	IT	55000
4	Diana	Finance	52000

Query: `SELECT name, salary FROM employees;`

Output:

name	salary
Alice	50000
Bob	60000
Charlie	55000
Diana	52000

Query: `SELECT * FROM employees WHERE department = 'IT' AND salary > 55000;`

Output:

id	name	department	salary
2	Bob	IT	60000

Query: `SELECT * FROM employees ORDER BY salary DESC;`

Output:

id	name	department	salary
2	Bob	IT	60000
3	Charlie	IT	55000
4	Diana	Finance	52000

1		Alice		HR		50000
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Query: `SELECT * FROM employees ORDER BY salary DESC LIMIT 2;`

Output:

id		name		department		salary
2		Bob		IT		60000
3		Charlie		IT		55000

Outcome:

Clear understanding of how to retrieve data using SQL SELECT queries.