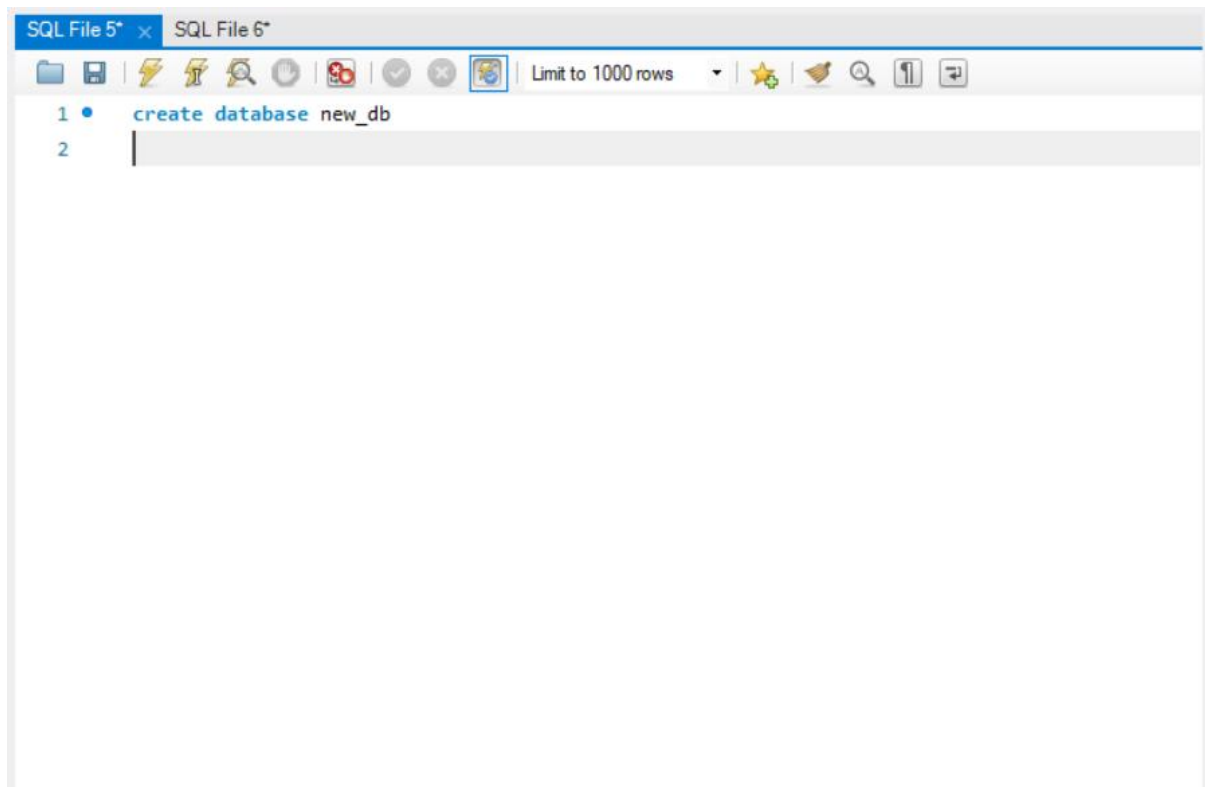


**Name: Avishkar Bhapkar**

# **MySQL**

## **Creating a Database:**

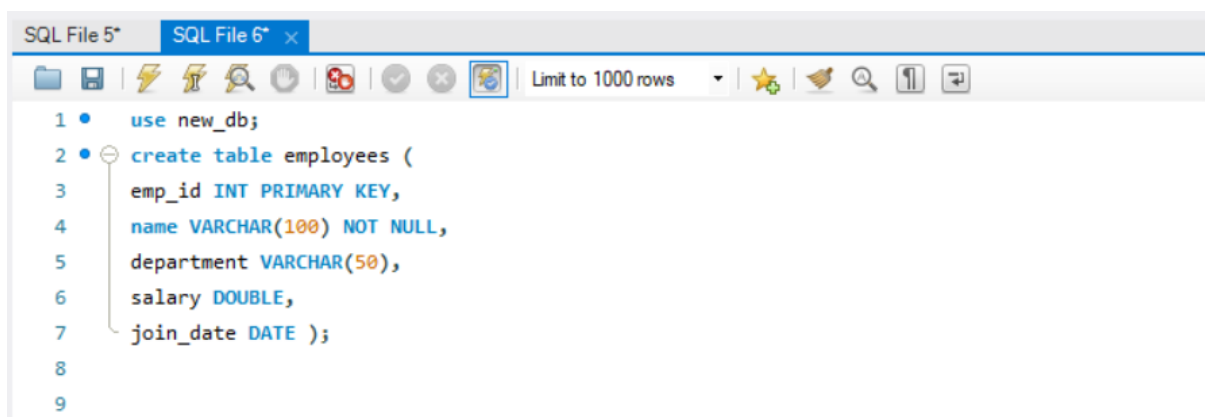


The screenshot shows a MySQL IDE window with two tabs: 'SQL File 5\*' and 'SQL File 6\*'. The 'SQL File 6\*' tab is active and contains the following SQL code:

```
1 • create database new_db
2 |
```

The IDE interface includes a toolbar with various icons for file operations, execution, and navigation. A status bar at the bottom indicates 'Limit to 1000 rows'.

## **Creating employees Table:**



The screenshot shows the same MySQL IDE window with the 'SQL File 6\*' tab active. The SQL code now includes the creation of the 'employees' table:

```
1 • use new_db;
2 • create table employees (
3     emp_id INT PRIMARY KEY,
4     name VARCHAR(100) NOT NULL,
5     department VARCHAR(50),
6     salary DOUBLE,
7     join_date DATE );
8
9
```

The IDE interface remains the same, with the status bar showing 'Limit to 1000 rows'.

## Inserting Values:

```
11 • INSERT INTO employees (emp_id, name, department, salary, join_date) VALUES
12 (101, 'John Doe', 'HR', 45000, '2021-06-15'),
13 (102, 'Jane Smith', 'IT', 75000, '2020-01-10'),
14 (103, 'Alice Johnson', 'Finance', 60000, '2019-08-23'),
15 (104, 'Bob Brown', 'IT', 80000, '2022-03-01'),
16 (105, 'Eve Davis', 'Marketing', 55000, '2021-11-05');
```

## Employees Table:

```
17
18 • select * from employees;
19
```

emp_id	name	department	salary	join_date
101	John Doe	HR	45000	2021-06-15
102	Jane Smith	IT	75000	2020-01-10
103	Alice Johnson	Finance	60000	2019-08-23
104	Bob Brown	IT	80000	2022-03-01
105	Eve Davis	Marketing	55000	2021-11-05
* NULL	NULL	NULL	NULL	NULL

employees 1 x

Apply Revert

## Queries:

- 1) SELECT name, department FROM employees;

```
19 • SELECT name, department FROM employees;
```

name	department
John Doe	HR
Jane Smith	IT
Alice Johnson	Finance
Bob Brown	IT
Eve Davis	Marketing

2) SELECT \* FROM employees WHERE department = 'IT';

```
20 • SELECT * FROM employees WHERE department = 'IT';
21
```

	emp_id	name	department	salary	join_date
▶	102	Jane Smith	IT	75000	2020-01-10
	104	Bob Brown	IT	80000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

3) SELECT \* FROM employees WHERE department = 'IT' AND salary > 75000;

```
20 • SELECT * FROM employees WHERE department = 'IT' AND salary > 75000;
21
22
```

	emp_id	name	department	salary	join_date
▶	104	Bob Brown	IT	80000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

Result Grid

Form

4) SELECT \* FROM employees WHERE department IN ('IT', 'Finance');

```
21 • SELECT * FROM employees WHERE department IN ('IT', 'Finance');
22
23
```

	emp_id	name	department	salary	join_date
▶	102	Jane Smith	IT	75000	2020-01-10
	103	Alice Johnson	Finance	60000	2019-08-23
	104	Bob Brown	IT	80000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

Result Grid

Form Editor

22 • `SELECT * FROM employees ORDER BY salary DESC;`

23

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	emp_id	name	department	salary	join_date
▶	104	Bob Brown	IT	80000	2022-03-01
	102	Jane Smith	IT	75000	2020-01-10
	103	Alice Johnson	Finance	60000	2019-08-23
	105	Eve Davis	Marketing	55000	2021-11-05
	101	John Doe	HR	45000	2021-06-15
*	NULL	NULL	NULL	NULL	NULL

Result Grid  
Form Editor  
Field Types

23 • `UPDATE employees SET salary = 82000 WHERE emp_id = 104;`

24 • `select * from employees;`

25

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	emp_id	name	department	salary	join_date
▶	101	John Doe	HR	45000	2021-06-15
	102	Jane Smith	IT	75000	2020-01-10
	103	Alice Johnson	Finance	60000	2019-08-23
	104	Bob Brown	IT	82000	2022-03-01
	105	Eve Davis	Marketing	55000	2021-11-05
*	NULL	NULL	NULL	NULL	NULL

Result Grid  
Form Editor  
Field Types

```

26 • DELETE FROM employees WHERE emp_id = 105;
27 • select * from employees;
28

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

emp_id	name	department	salary	join_date
101	John Doe	HR	45000	2021-06-15
102	Jane Smith	IT	75000	2020-01-10
103	Alice Johnson	Finance	60000	2019-08-23
104	Bob Brown	IT	82000	2022-03-01
NULL	NULL	NULL	NULL	NULL

employees 9 x | Apply | Revert | Co

Output

Action Output

#	Time	Action	Message
✓ 10	14:46:47	SELECT * FROM employees WHERE department IN ('IT', 'Finance') LIMIT 0, 1000	3 row(s) returned
✓ 11	14:48:23	SELECT * FROM employees ORDER BY salary DESC LIMIT 0, 1000	5 row(s) returned
✓ 12	14:49:18	UPDATE employees SET salary = 82000 WHERE emp_id = 104	1 row(s) affected
✓ 13	14:49:30	select * from employees LIMIT 0, 1000	5 row(s) returned
✓ 14	14:50:31	DELETE FROM employees WHERE emp_id = 105	1 row(s) affected
✓ 15	14:50:48	select * from employees LIMIT 0, 1000	4 row(s) returned

```

30 • SELECT department, AVG(salary) AS avg_salary FROM employees GROUP BY department;
31

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |





department	avg_salary
HR	45000
IT	78500
Finance	60000

Result Grid | Form Editor | Field Types




33 • `SELECT department, COUNT(*) AS emp_count FROM employees GROUP BY department HAVING COUNT(*) > 1;`

34

35

**Result Grid**   Filter Rows:  | Export:  | Wrap Cell Content: 

	department	emp_count
▶	IT	2

**Result Grid**  
Form Editor  
Field Types

\*\*\*\*\*