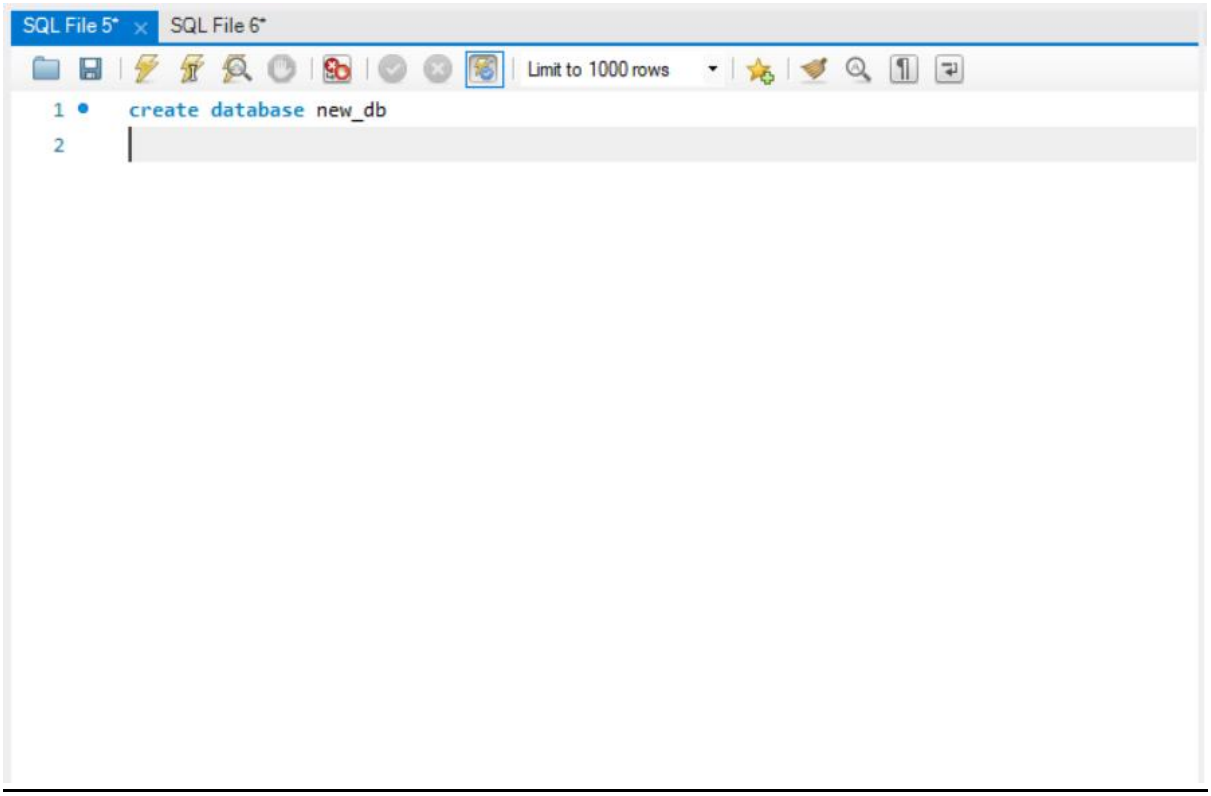
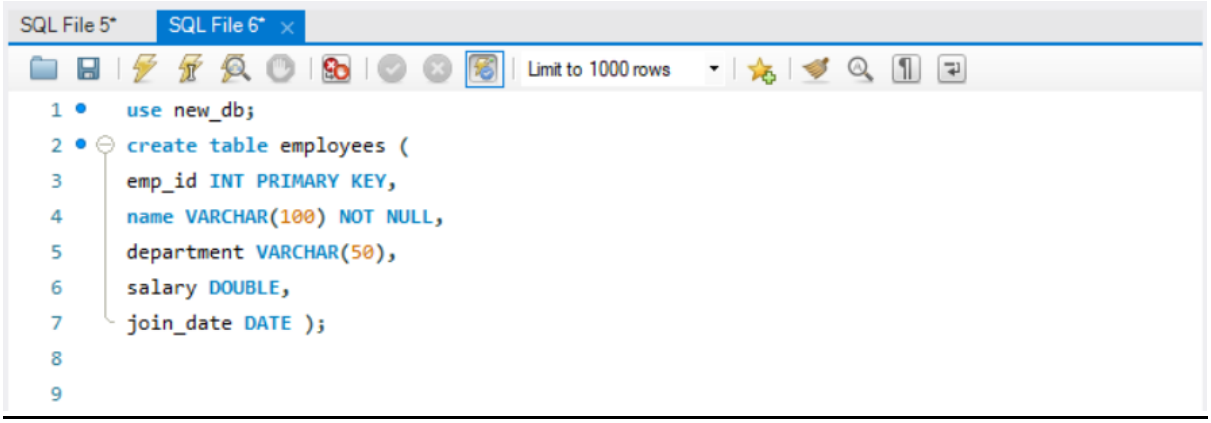
Name: Avishkar Bhapkar

MySQL

Creating a Database:



Creating employees Table:



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:

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

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	80000	2022-03-01
105	Eve Davis	Marketing	55000	2021-11-05
NULL	NULL	NULL	NULL	NULL

Result Grid | Form Editor | Field Types

employees 1 | Apply | Revert

Queries:

1) SELECT name, department FROM employees;

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

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

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

Result Grid | Form Editor | Field

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

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

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

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

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

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

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
NULL	NULL	NULL	NULL	NULL

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

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

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

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

```
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

```sql
DELETE FROM employees WHERE emp_id = 105;
select * from employees;
```

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

Result Grid | Form Editor | Field Types

employees 9 | 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

```sql
SELECT department, AVG(salary) AS avg_salary FROM employees GROUP BY department;
```

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
```

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

department	emp_count
IT	2

Result Grid
Form Editor
Field Types

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