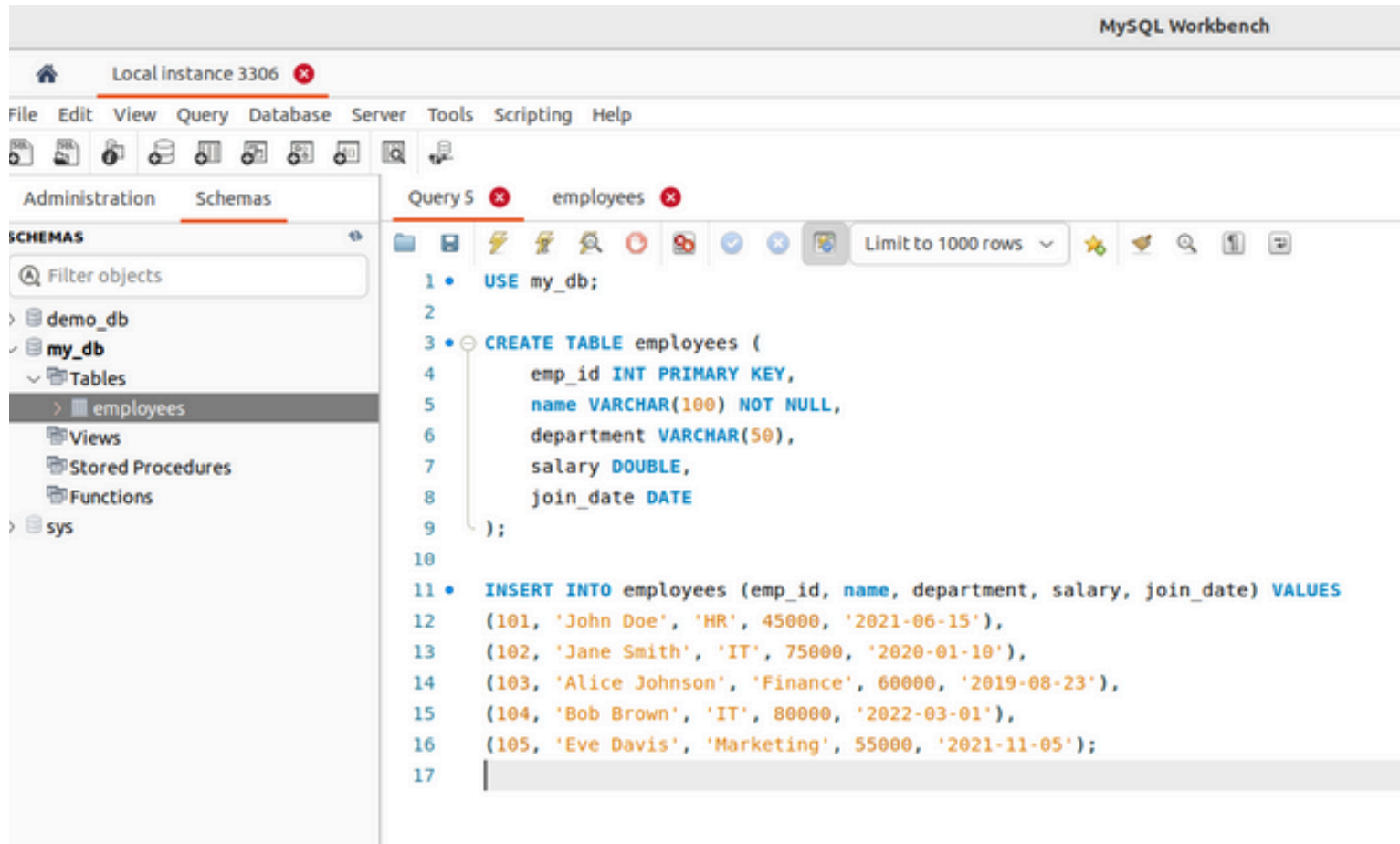


Harshini Ramdas Bhandary

Creating Table and inserting values:-



The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' pane shows a tree view with 'demo_db', 'my_db' (selected), and 'sys'. Under 'my_db', there is a 'Tables' folder containing an 'employees' table. The main editor area, titled 'Query 5', contains the following SQL code:

```
1 • USE my_db;
2
3 • CREATE TABLE employees (
4     emp_id INT PRIMARY KEY,
5     name VARCHAR(100) NOT NULL,
6     department VARCHAR(50),
7     salary DOUBLE,
8     join_date DATE
9 );
10
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');
17
```

MySQL

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

- > demo_db
- > my_db
 - > Tables
 - > employees
 - > Views
 - > Stored Procedures
 - > Functions
- > sys

Query 5 employees SQL File 6 employees employees

Limit to 1000 rows

```
1 • SELECT * FROM my_db.employees;
```

Result Grid

#	emp_id	name	department	salary	join_date
1	101	John Doe	HR	45000	2021-06-15
2	102	Jane Smith	IT	75000	2020-01-10
3	103	Alice Johnson	Finance	60000	2019-08-23
4	104	Bob Brown	IT	80000	2022-03-01
5	105	Eve Davis	Marketing	55000	2021-11-05
*	NULL	NULL	NULL	NULL	NULL

Select Query:-

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

- > demo_db
- > my_db
 - Tables
 - employees
 - Views
 - Stored Procedures
 - Functions
- > sys

Query 5 SQL File 7*

Limit to 1000 rows

```
1 • SELECT * FROM employees;
2
3 • SELECT name, department FROM employees;
4
5 • SELECT * FROM employees
6   WHERE department = 'IT';
```

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell Content

#	emp_id	name	department	salary	join_date
1	102	Jane Smith	IT	75000	2020-01-10
2	104	Bob Brown	IT	80000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

AND, IN BETWEEN & LIKE :-

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

- demo_db
- my_db
 - Tables
 - employees
 - Views
 - Stored Procedures
 - Functions
- sys

Query 5 SQL File 7* SQL File 8*

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

Result Grid

#	emp_id	name	department	salary	join_date
1	104	Bob Brown	IT	80000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

- demo_db
- my_db
 - Tables
 - employees
 - Views
 - Stored Procedures
 - Functions
- sys

SQL File 7 SQL File 8* SQL File 9*

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

Result Grid

#	emp_id	name	department	salary	join_date
1	102	Jane Smith	IT	75000	2020-01-10
2	103	Alice Johnson	Finance	60000	2019-08-23
3	104	Bob Brown	IT	80000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

- > demo_db
- > my_db
 - > Tables
 - > employees
 - > Views
 - > Stored Procedures
 - > Functions
- > sys

SQL File 7 SQL File 8* SQL File 9* SQL File 10*

Limit to 1000 rows

```
1 • USE my_db;
2
3 • SELECT * FROM employees
4 WHERE salary BETWEEN 50000 AND 70000;
```

Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell C

#	emp_id	name	department	salary	join_date
1	103	Alice Johnson	Finance	60000	2019-08-23
2	105	Eve Davis	Marketing	55000	2021-11-05
*					

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

Administration Schemas

SCHEMAS

Filter objects

- > demo_db
- > my_db
 - > Tables
 - > employees
 - > Views
 - > Stored Procedures
 - > Functions
- > sys

SQL File 7 SQL File 8* SQL File 9* SQL File 10*

Limit to 1000 rows

```
1 • USE my_db;
2
3 • SELECT * FROM employees
4 WHERE name LIKE 'J%'; -- Names starting with J
5
```

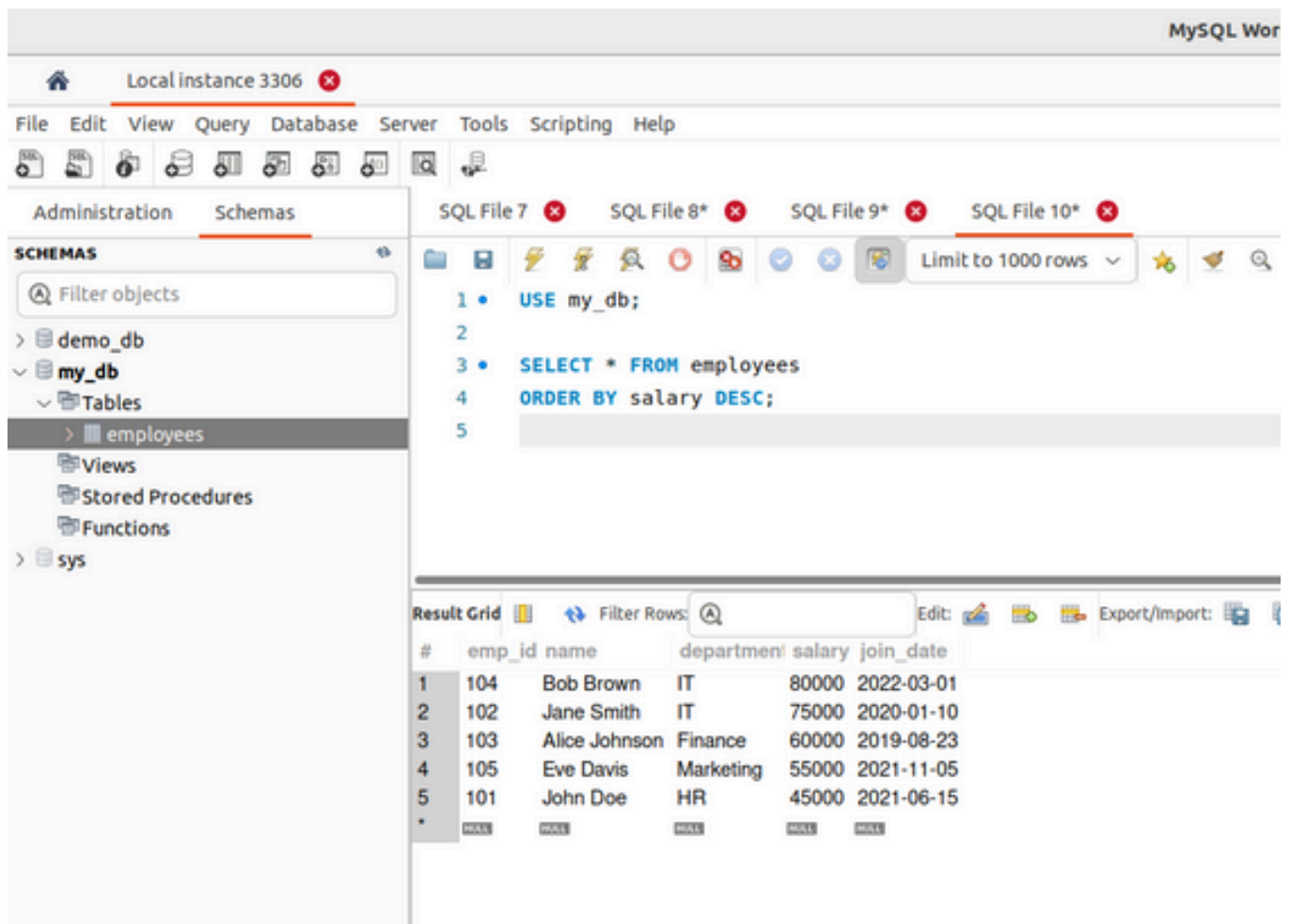
Result Grid

Filter Rows:

Edit: Export/Import: Wrap Cell C

#	emp_id	name	department	salary	join_date
1	101	John Doe	HR	45000	2021-06-15
2	102	Jane Smith	IT	75000	2020-01-10
*					

CLAUSE -ORDER BY, WHERE, HAVING



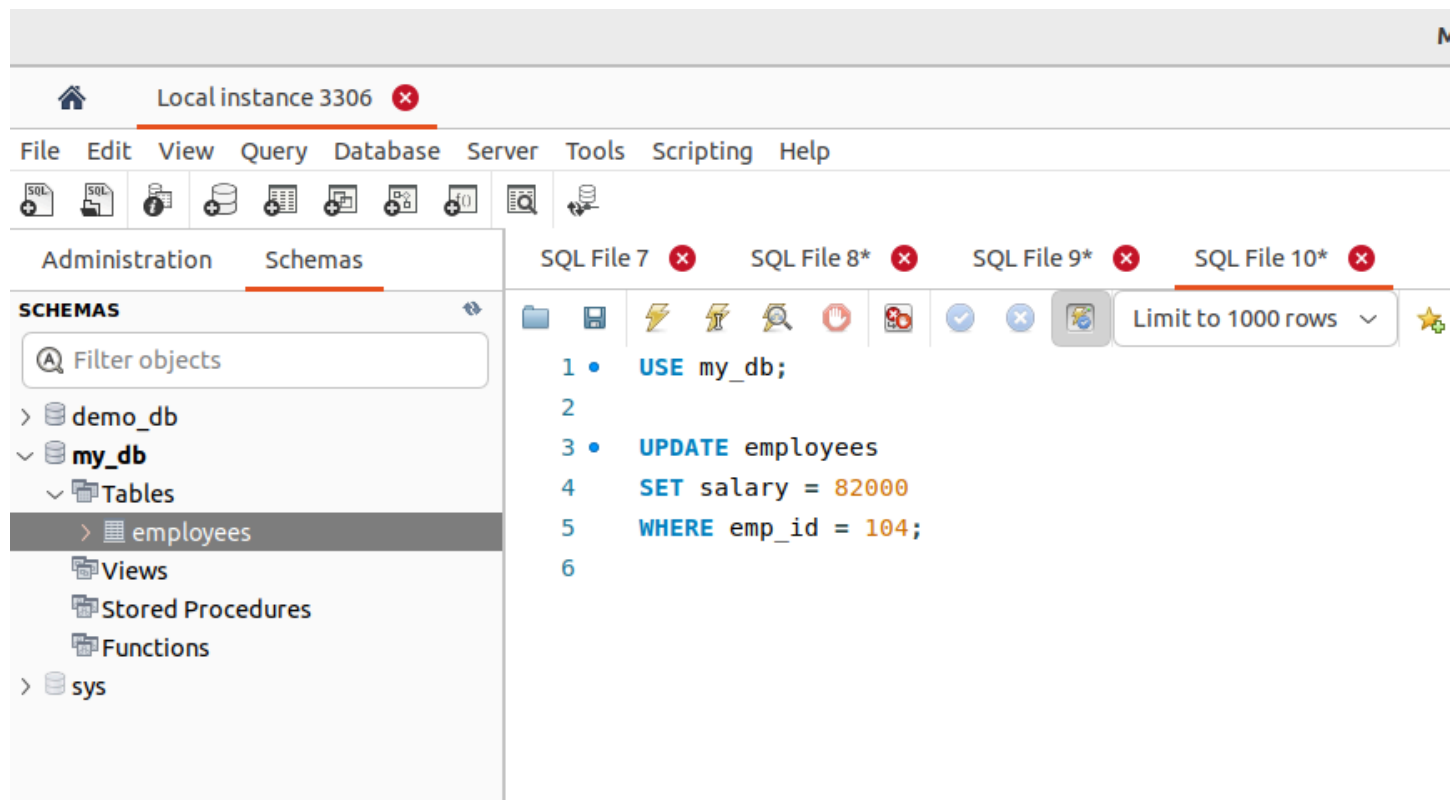
The screenshot shows the MySQL Workbench interface for 'Local instance 3306'. The 'Schemas' tab is active, and the 'employees' table is selected in the 'my_db' database. The SQL editor displays the following query:

```
1 • USE my_db;  
2  
3 • SELECT * FROM employees  
4 ORDER BY salary DESC;  
5
```

The 'Result Grid' shows the output of the query, sorted by salary in descending order:

#	emp_id	name	department	salary	join_date
1	104	Bob Brown	IT	80000	2022-03-01
2	102	Jane Smith	IT	75000	2020-01-10
3	103	Alice Johnson	Finance	60000	2019-08-23
4	105	Eve Davis	Marketing	55000	2021-11-05
5	101	John Doe	HR	45000	2021-06-15

Update Query:



The screenshot shows the MySQL Workbench interface for 'Local instance 3306'. The 'Schemas' tab is active, and the 'employees' table is selected in the 'my_db' database. The SQL editor displays the following query:

```
1 • USE my_db;  
2  
3 • UPDATE employees  
4 SET salary = 82000  
5 WHERE emp_id = 104;  
6
```

Limit to 1000 rows

```
1 • SELECT * FROM my_db.employees;
```

Result Grid

#	emp_id	name	department	salary	join_date
1	101	John Doe	HR	45000	2021-06-15
2	102	Jane Smith	IT	75000	2020-01-10
3	103	Alice Johnson	Finance	60000	2019-08-23
4	104	Bob Brown	IT	82000	2022-03-01
5	105	Eve Davis	Marketing	55000	2021-11-05
*	NULL	NULL	NULL	NULL	NULL

Delete Query:

Limit to 1000 rows

```
1 • USE my_db;
2
3 • DELETE FROM employees
4 WHERE emp_id = 105;
5
6
```

Limit to 1000 rows

1 • `SELECT * FROM my_db.employees;`

Result Grid











Filter Rows:


Edit:




Export/Import:

#	emp_id	name	department	salary	join_date
1	101	John Doe	HR	45000	2021-06-15
2	102	Jane Smith	IT	75000	2020-01-10
3	103	Alice Johnson	Finance	60000	2019-08-23
4	104	Bob Brown	IT	82000	2022-03-01
*	NULL	NULL	NULL	NULL	NULL

Group by:



Limit to 1000 rows 



1 • **USE** my_db;


2


3 • **SELECT** department, **AVG**(salary) **AS** avg_salary



4 **FROM** employees

5 **GROUP BY** department;











6


Result Grid 




 Filter Rows:

Export:  Wrap Cell Content: 

#	department	avg_salary
1	HR	45000
2	IT	78500
3	Finance	60000



Limit to 1000 rows 



1 • **USE** my_db;


2 • **SELECT** department, **COUNT**(*) **AS** emp_count


3 **FROM** employees



4 **GROUP BY** department

5 **HAVING** **COUNT**(*) > 1;

6

Result Grid 

 Filter Rows:

Export:  Wrap Cell Content: 

#	department	emp_count
1	IT	2