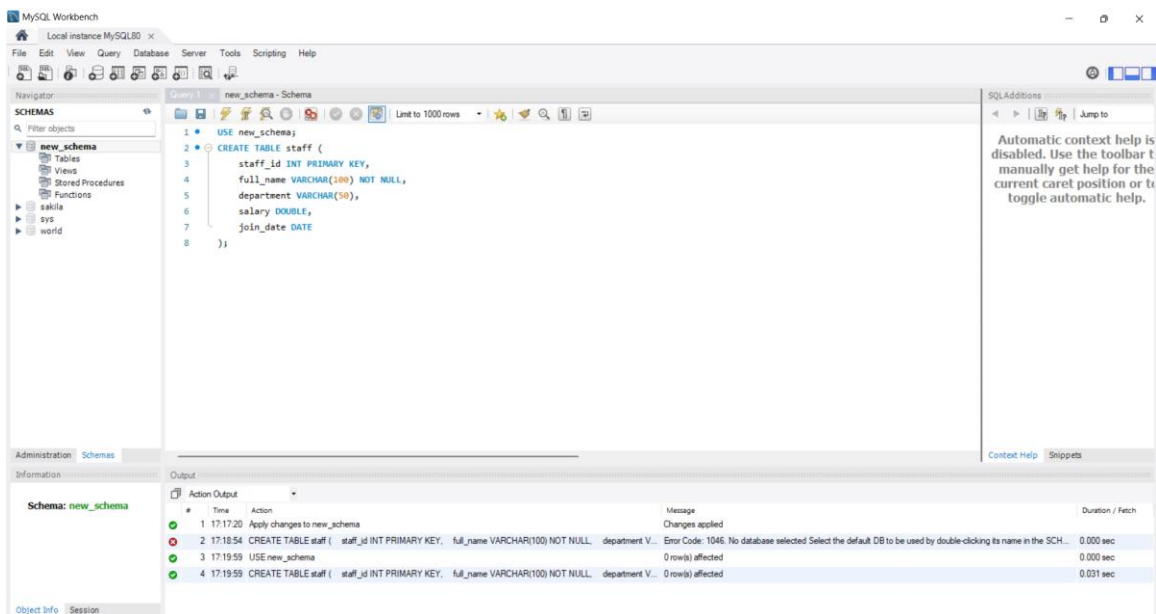


Harsh Hande

STAFF TABLE

1) CREATING TABLE

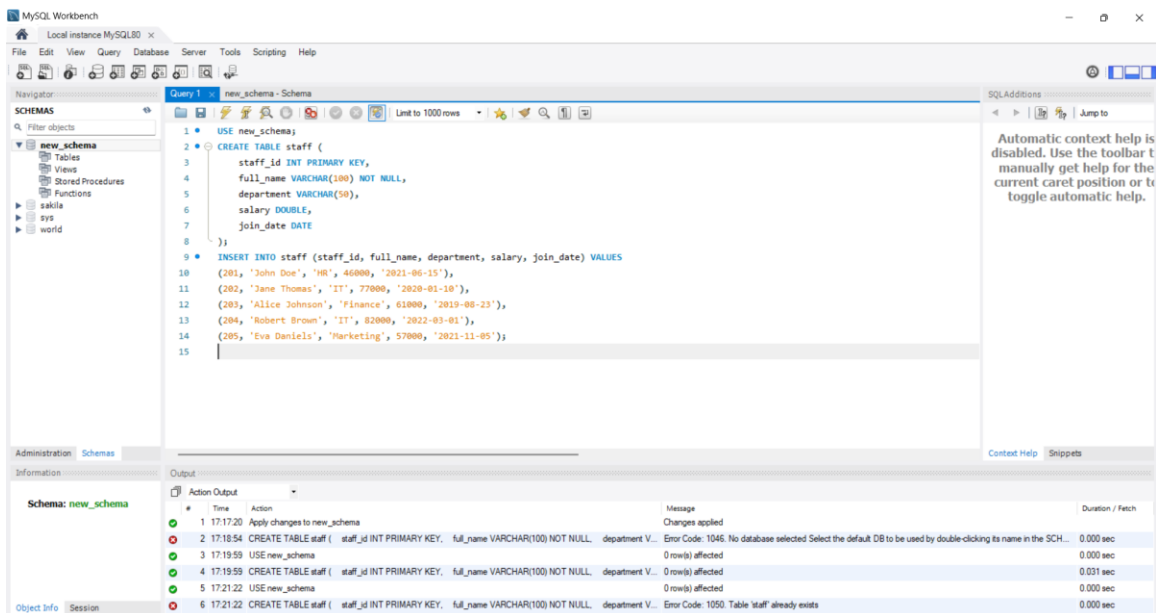
```
CREATE TABLE staff (  
    staff_id INT PRIMARY KEY,  
    full_name VARCHAR(100) NOT NULL,  
    department VARCHAR(50),  
    salary DOUBLE,  
    join_date DATE  
);
```



2) INSERT QUERY

INSERT INTO staff (staff_id, full_name, department, salary, join_date) VALUES

(201, 'John Doe', 'HR', 46000, '2021-06-15'),
(202, 'Jane Thomas', 'IT', 77000, '2020-01-10'),
(203, 'Alice Johnson', 'Finance', 61000, '2019-08-23'),
(204, 'Robert Brown', 'IT', 82000, '2022-03-01'),
(205, 'Eva Daniels', 'Marketing', 57000, '2021-11-05');



3) SELECT QUERY

SELECT * FROM staff;

SELECT full_name, department FROM staff;

SELECT * FROM staff WHERE department = 'IT';

The screenshot shows the MySQL Workbench interface. The query editor contains three SQL queries:

```
21 (205, 'Eva Daniels', 'Marketing', 57000, '2021-11-05');
22
23
24 SELECT * FROM staff;
25
26 SELECT full_name, department FROM staff;
27
28 SELECT * FROM staff WHERE department = 'IT';
29
```

The result grid displays the output of the third query, showing two rows of data:

staff_id	full_name	department	salary	join_date
202	Jane Thomas	IT	77000	2020-01-10
204	Robert Brown	IT	82000	2022-03-01

The action output log shows the following actions and messages:

#	Time	Action	Message	Duration / Fetch
10	17:25:18	DROP TABLE IF EXISTS staff	0 row(s) affected	0.031 sec
11	17:25:18	CREATE TABLE staff (staff_id INT PRIMARY KEY, full_name VARCHAR(100) NOT NULL, departmen...	0 row(s) affected	0.031 sec
12	17:25:18	INSERT INTO staff (staff_id, full_name, department, salary, join_date) VALUES (201, 'John Doe', 'HR', 46000, ...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.016 sec
13	17:25:18	SELECT * FROM staff LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
14	17:25:18	SELECT full_name, department FROM staff LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
15	17:25:18	SELECT * FROM staff WHERE department = 'IT' LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

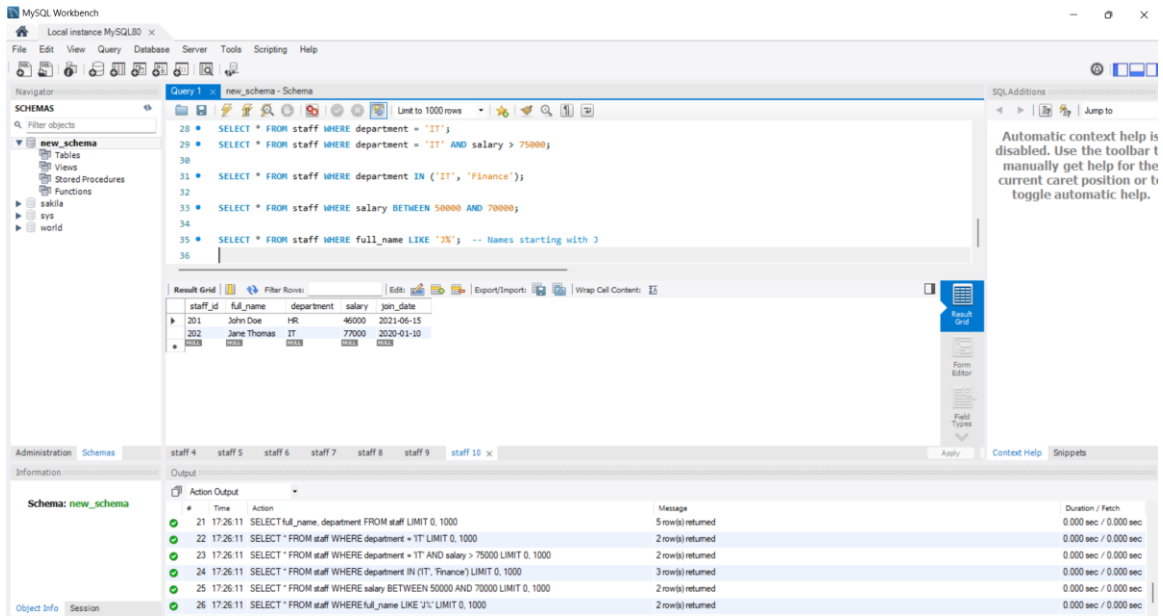
4) AND, IN, BETWEEN & LIKE

```
SELECT * FROM staff WHERE department = 'IT' AND salary > 75000;
```

```
SELECT * FROM staff WHERE department IN ('IT', 'Finance');
```

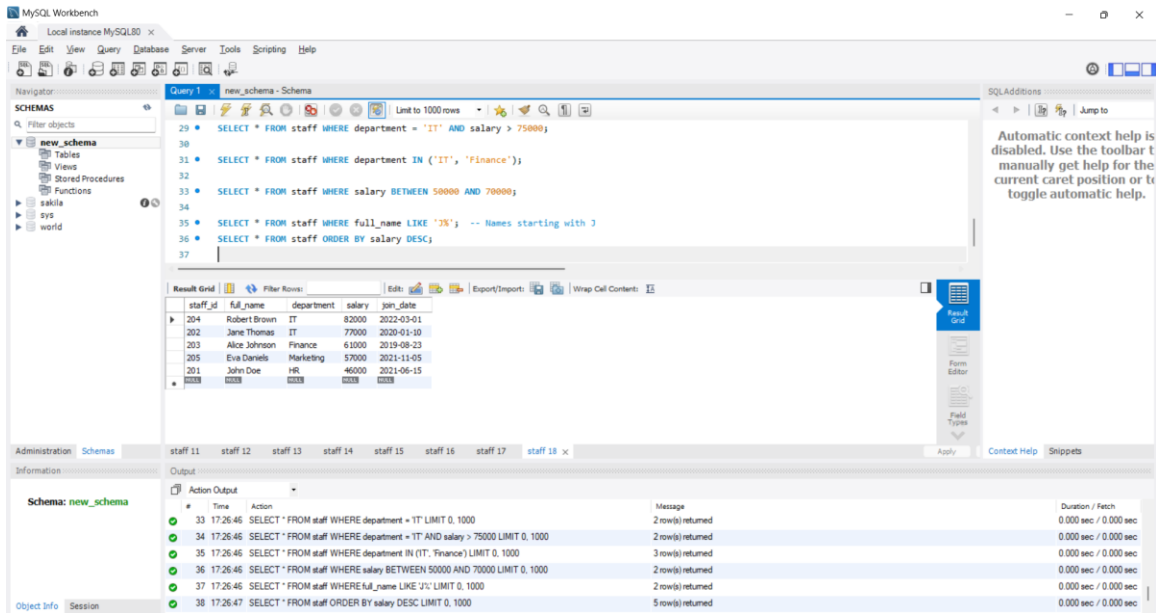
```
SELECT * FROM staff WHERE salary BETWEEN 50000 AND 70000;
```

```
SELECT * FROM staff WHERE full_name LIKE 'J%'; -- Names starting with J
```



5) CLAUSE - ORDER BY, WHERE, HAVING

SELECT * FROM staff ORDER BY salary DESC;



6) UPDATE QUERY

UPDATE staff

SET salary = 84000

WHERE staff_id = 204;

```
DELETE FROM staff
WHERE staff_id = 205;
```

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

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

The screenshot shows the MySQL Workbench interface. The top toolbar includes icons for File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar shows the 'Schemas' pane with a tree view of databases: new_schema, sakila, sys, and world. The main editor window displays a SQL query with line numbers 35 to 43. The query is as follows:

```
35 SELECT * FROM staff WHERE full_name LIKE 'J%'; -- Names starting with J
36 SELECT * FROM staff ORDER BY salary DESC;
37 UPDATE staff
38 SET salary = 84000
39 WHERE staff_id = 204;
40
41 DELETE FROM staff
42 WHERE staff_id = 205;
43
```

Below the query editor is the 'Result Grid' pane, which displays a table with columns: staff_id, full_name, department, salary, and join_date. The data is as follows:

staff_id	full_name	department	salary	join_date
204	Robert Brown	IT	82000	2022-03-01
202	Jane Thomas	IT	77000	2020-01-10
203	Alice Johnson	Finance	61000	2019-08-23
205	Eva Daniels	Marketing	57000	2021-11-05
201	John Doe	HR	46000	2021-06-15

At the bottom of the interface is the 'Output' pane, which shows the 'Action Output' for the executed queries. The output is as follows:

#	Time	Action	Message	Duration / Fetch
47	17:27:52	SELECT * FROM staff WHERE department IN (IT, Finance) LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
48	17:27:52	SELECT * FROM staff WHERE salary BETWEEN 50000 AND 70000 LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
49	17:27:52	SELECT * FROM staff WHERE full_name LIKE 'J%'; LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
50	17:27:52	SELECT * FROM staff ORDER BY salary DESC LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
51	17:27:52	UPDATE staff SET salary = 84000 WHERE staff_id = 204	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
52	17:27:52	DELETE FROM staff WHERE staff_id = 205	1 row(s) affected	0.016 sec