

## Name – Khushi Goyal

## Output Screenshots

### SHOW TABLES

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following code:

```
132 FROM orders o
133 JOIN customers c ON o.customer_id = c.id
134 WHERE o.status = 'completed';
135
136 -- Show the view
137 SELECT * FROM completed_orders;
138
139 SHOW TABLES;
140
141
```

The 'Result Grid' shows the output of the 'SHOW TABLES' command, listing the tables in the 'ecommerce' database:

Tables_in_ecommerce
categories
completed_orders
customers
order_items
orders
products

The 'Output' pane shows the execution log of the queries, including the 'SHOW TABLES' command and its results.

### 1. Show all customers

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following code:

```
83
84 -- =====
85 -- Analysis Queries
86 -- =====
87
88 -- 1. Show all customers
89 SELECT * FROM customers;
90
91 -- 2. Customers from Delhi
92 SELECT * FROM customers WHERE city = 'Delhi';
```

The 'Result Grid' shows the output of the 'SELECT \* FROM customers;' command, displaying a list of customers:

id	first_name	last_name	email	city	country	created_at
1	Alice	Smith	alice@example.com	Delhi	India	2025-01-10
2	Bob	Lee	bob@example.com	Mumbai	India	2025-02-12
3	Charlie	Brown	charlie@example.com	Bangalore	India	2025-03-05
4	David	Johnson	david@example.com	Pune	India	2025-03-18

The 'Output' pane shows the execution log of the queries, including the 'SELECT \* FROM customers;' command and its results.

## 2. Customers from Delhi

MySQL Workbench

Local instance MySQL80 - W...

File Edit View Query Database Server Tools Scripting Help

Navigator: sql SQL File 3 SQL File 6

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```
89 • SELECT * FROM customers;
90
91 -- 2. Customers from Delhi
92 • SELECT * FROM customers WHERE city = 'Delhi';
93
94 -- 3. Orders with total amount > 50
95 • SELECT * FROM orders WHERE total_amount > 50;
96
97 -- 4. Join Orders with Customers
98 • SELECT o.id AS order_id, c.first_name, c.last_name, o.total_amount
```

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

	id	first_name	last_name	email	city	country	created_at
▶	1	Alice	Smith	alice@example.com	Delhi	India	2025-01-10

## 3. Orders with total amount > 50

MySQL Workbench

Local instance MySQL80 - W...

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```
89 • SELECT * FROM customers;
90
91 -- 2. Customers from Delhi
92 • SELECT * FROM customers WHERE city = 'Delhi';
93
94 -- 3. Orders with total amount > 50
95 • SELECT * FROM orders WHERE total_amount > 50;
96
97 -- 4. Join Orders with Customers
98 • SELECT o.id AS order_id, c.first_name, c.last_name, o.total_amount
```

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

	id	customer_id	order_date	status	total_amount
▶	1	1	2025-03-10	completed	84.98
	3	3	2025-03-20	pending	799.99
	4	4	2025-03-22	completed	60.00

#### 4. Join Orders with Customers

MySQL Workbench

Local instance MySQL80 - W...

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Navigator: sql SQL File 3 SQL File 6\*

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```
95 • SELECT * FROM orders WHERE total_amount > 50;
96
97 -- 4. Join Orders with Customers
98 • SELECT o.id AS order_id, c.first_name, c.last_name, o.total_amount
99 FROM orders o
100 JOIN customers c ON o.customer_id = c.id;
101
102 -- 5. Revenue by Category
103 • SELECT cat.name AS category, SUM(oi.quantity * oi.unit_price) AS revenue
104 FROM order_items oi
```

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

order_id	first_name	last_name	total_amount
1	Alice	Smith	84.98
2	Bob	Lee	45.00
3	Charlie	Brown	799.99
4	David	Johnson	60.00

#### 5. Revenue by Category

MySQL Workbench

Local instance MySQL80 - W...

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```
101
102 -- 5. Revenue by Category
103 • SELECT cat.name AS category, SUM(oi.quantity * oi.unit_price) AS revenue
104 FROM order_items oi
105 JOIN products p ON oi.product_id = p.id
106 JOIN categories cat ON p.category_id = cat.id
107 JOIN orders o ON oi.order_id = o.id
108 WHERE o.status = 'completed'
109 GROUP BY cat.name;
110
```

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

category	revenue
Books	45.00
Clothing	60.00
Electronics	79.98

## 6. Average order value

MySQL Workbench

The screenshot shows the MySQL Workbench interface with a SQL query editor. The query is as follows:

```
110
111 -- 6. Average order value
112 • SELECT AVG(total_amount) AS avg_order_value FROM orders;
113
114 -- 7. Top-selling product
115 • SELECT p.name, SUM(oi.quantity) AS total_sold
116 FROM order_items oi
117 JOIN products p ON oi.product_id = p.id
118 GROUP BY p.name
119 ORDER BY total_sold DESC
```

The result grid shows the following data:

avg_order_value
247.492500

## 7. Top-selling product

MySQL Workbench

The screenshot shows the MySQL Workbench interface with a SQL query editor. The query is as follows:

```
117 JOIN products p ON oi.product_id = p.id
118 GROUP BY p.name
119 ORDER BY total_sold DESC
120 LIMIT 1;
121
122 -- 8. Pending orders
123 • SELECT * FROM orders WHERE status = 'pending';
124
125 -- 9. Orders placed in March 2025
126 • SELECT * FROM orders
```

The result grid shows the following data:

name	total_sold
T-Shirt	4

## 8. Pending orders

MySQL Workbench

Local instance MySQL80 - W...

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```
118 GROUP BY p.name
119 ORDER BY total_sold DESC
120 LIMIT 1;
121
122 -- 8. Pending orders
123 • SELECT * FROM orders WHERE status = 'pending';
124
125 -- 9. Orders placed in March 2025
126 • SELECT * FROM orders
127 WHERE MONTH(order_date) = 3 AND YEAR(order_date) = 2025;
```

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

	id	customer_id	order_date	status	total_amount
▶	3	3	2025-03-20	pending	799.99

## 9. Orders placed in March 2025

MySQL Workbench

Local instance MySQL80 - W...

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119 ORDER BY total_sold DESC
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123 • SELECT * FROM orders WHERE status = 'pending';
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127 WHERE MONTH(order_date) = 3 AND YEAR(order_date) = 2025;
```

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

	id	customer_id	order_date	status	total_amount
▶	1	1	2025-03-10	completed	84.98
	2	2	2025-03-15	completed	45.00
	3	3	2025-03-20	pending	799.99
	4	4	2025-03-22	completed	60.00



## 10. Create a view for completed orders

MySQL Workbench

Local instance MySQL80 - W... x

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```
127 WHERE MONTH(order_date) = 3 AND YEAR(order_date) = 2025;
128
129 -- 10. Create a view for completed orders
130 • CREATE OR REPLACE VIEW completed_orders AS
131 SELECT o.id, c.first_name, c.last_name, o.order_date, o.total_amount
132 FROM orders o
133 JOIN customers c ON o.customer_id = c.id
134 WHERE o.status = 'completed';
135 • SELECT * FROM completed_orders;
136
```

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

	id	first_name	last_name	order_date	total_amount
▶	1	Alice	Smith	2025-03-10	84.98
	2	Bob	Lee	2025-03-15	45.00
	4	David	Johnson	2025-03-22	60.00

## Show the view

MySQL Workbench

Local instance MySQL80 - W... x

File Edit View Query Database Server Tools Scripting Help

Navigator: sql SQL File 3 SQL File 6\* x

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

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