SQL Assignments - MiniStore DB

Easy Level

1. Write Query: Fetch the list of all product names and their prices.

Expected Output:

product_name | price

Wireless Mouse | 799.00

Mechanical Keyboard | 1499.00

USB-C Cable | 299.00

2. Write Query: Retrieve the names and email addresses of all customers.

Expected Output:

customer_name | email

Rahul Sharma | rahul@example.com

Sneha Mehta | sneha@example.com

Amit Verma | amit@example.com

3. Write Query: List all order IDs and their order dates.

Expected Output:

order_id | order_date

1 | 2025-05-01

2 | 2025-05-02

3 | 2025-05-02

4. Write Query: Get product_id and product_name for all products.

Expected Output:

product_id | product_name

1 | Wireless Mouse

2 | Mechanical Keyboard

3 | USB-C Cable

5. Write Query: List all customers' phone numbers.

Expected Output:

p | h | o | n | e

9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0

9 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 5 | 5

6. Write Query: Fetch order_id and customer_id for all orders.

Expected Output:

order_id | customer_id

1 | 1

2 | 2

3 | 1

7. Write Query: Display product names with price less than 1000.

Expected Output:

product_name | price

Wireless Mouse | 799.00

USB-C Cable | 299.00

8. Write Query: List customer_name and city of all customers.

Expected Output:

customer_name | city

Rahul Sharma | Delhi

Sneha Mehta | Mumbai

Amit Verma | Bangalore

9. Write Query: Show order_id and total_amount for all orders.

Expected Output:

order_id | total_amount

1 | 1798.00

2 | 299.00

3 | 299.00

10. Write Query: List all product names in ascending order.

Expected Output:

p|r|o|d|u|c|t|_|n|a|m|e

H|D|M|I| |C|a|b|l|e

M|e|c|h|a|n|i|c|a|l| |K|e|y|b|o|a|r|d

U|S|B|-|C| |C|a|b|l|e

W|i|r|e|l|e|s|s| |M|o|u|s|e

Medium Level

1. Write Query: Get the total number of orders placed by each customer.

Expected Output:

customer_name | total_orders

Rahul Sharma | 5

Sneha Mehta | 3

Amit Verma | 4

2. Write Query: List the total quantity sold for each product.

Expected Output:

product_name | total_quantity_sold

USB-C Cable | 15

Wireless Mouse | 10

HDMI Cable | 8

3. Write Query: Find all customers from 'Delhi'.

Expected Output:

customer_name | city

Rahul Sharma | Delhi

Karan Singh | Delhi

4. Write Query: Show orders with total_amount greater than 1000.

Expected Output:

order_id | total_amount

1 | 1798.00

4 | 1200.00

5. Write Query: List products and their prices where stock is more than 50.

Expected Output:

product_name | price | stock

USB-C Cable | 299.00 | 100

HDMI Cable | 499.00 | 60

6. Write Query: Get customer_name and total spent amount by each customer.

Expected Output:

customer_name | total_spent

Rahul Sharma | 5500.00

Sneha Mehta | 3200.00

Amit Verma | 4100.00

7. Write Query: List orders placed in May 2025.

Expected Output:

order_id | order_date

1 | 2025-05-01

2 | 2025-05-02

3 | 2025-05-02

8. Write Query: Find all products whose name contains 'Cable'.

Expected Output:

p | r | o | d | u | c | t | _ | n | a | m | e

U | S | B | - | C | | C | a | b | l | e

H | D | M | I | | C | a | b | l | e

9. Write Query: Show customers with email ending in 'example.com'.

Expected Output:

customer_name | email

Rahul Sharma | rahul@example.com

Sneha Mehta | sneha@example.com

Amit Verma | amit@example.com

10. Write Query: Find customers who have not placed any orders.

Expected Output:

c | u | s | t | o | m | e | r | _ | n | a | m | e

P | o | o | j | a | | P | a | t | e | l

S | a | n | j | a | y | | K | u | m | a | r

Hard Level

1. Write Query: Find the top 3 products with the highest total quantity sold.

Expected Output:

product_name | total_sold

USB-C Cable | 15

Wireless Mouse | 10

HDMI Cable | 8

2. Write Query: Identify customers who have ordered more than 1 distinct product.

Expected Output:

customer_name | distinct_products_ordered

Rahul Sharma | 4

Sneha Mehta | 3

3. Write Query: Calculate the total revenue generated per product.

Expected Output:

product_name | total_revenue

USB-C Cable | 4500.00

Wireless Mouse | 7990.00

HDMI Cable | 3992.00

4. Write Query: Find customers who spent more than 5000 in total.

Expected Output:

customer_name | total_spent

Rahul Sharma | 5500.00

Amit Verma | 6100.00

5. Write Query: List orders along with customer names and total amounts.

Expected Output:

order_id | customer_name | total_amount

1 | Rahul Sharma | 1798.00

2 | Sneha Mehta | 299.00

3 | Rahul Sharma | 299.00

6. Write Query: Find products not ordered by any customer.

Expected Output:

p | r | o | d | u | c | t | _ | n | a | m | e

W | e | b | c | a | m

G | a | m | i | n | g | | C | h | a | i | r

7. Write Query: Find customers who ordered all products.

Expected Output:

c | u | s | t | o | m | e | r | _ | n | a | m | e

R | a | h | u | l | | S | h | a | r | m | a

8. Write Query: Get the average order value per customer.

Expected Output:

customer_name | avg_order_value

Rahul Sharma | 1099.60

Sneha Mehta | 853.50

9. Write Query: Find the product with the lowest stock.

Expected Output:

product_name | stock

Gaming Chair | 10

10. Write Query: Show the latest order date for each customer.

Expected Output:

customer_name | latest_order_date

Rahul Sharma | 2025-05-10

Sneha Mehta | 2025-05-07