**SQL**

You have been supplied with the following tables and requested to answer the following questions about customer orders and products

**Product**

|  |  |  |
| --- | --- | --- |
| **product\_id** | **product\_name** | **price** |
| 301 | Asus Laptop | 1000.00 |
| 302 | Iphone | 600.00 |

**Order**

|  |  |  |  |
| --- | --- | --- | --- |
| **order\_id** | **customer\_id** | **order\_date** | **total\_amount** |
| 201 | 101 | 2024-05-01 | 500.00 |
| 202 | 102 | 2024-05-02 | 750.00 |

**Customers**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **customer\_id** | **first\_name** | **last\_name** | **email** | **phone\_number** |
| 101 | Vikky | Johnson | vikky@snowflake.com | +1 123-456-7890 |
| 102 | Rick | Ross | rikcy@snowflake.com | +1 987-654-3210 |

Questions

1. Retrieve all orders along with customer details:
2. Update the price of a specific product (e.g., change the price of product with product\_id = 301):
3. Delete a product record (e.g., delete the product with product\_id = 302):
4. Find the customer who has made the highest total purchase amount:
5. Calculate the average order amount:

**NOSQL**

A business owner has supplied you with the following data about his business in a tabular format and in a dictionary format.

He has requested that supply him with an average order total for each customer for the of first of May 2023 in descending order"

He also requested that you set the price of order\_003 to 600.

Database name is Business and the group of documents is order.

**Show all the steps and output result**

Data in tabular format:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Client\_id** | **order\_id** | **order\_date** | **product\_id** | **product\_name** | **quantity** | **total\_price** |
| Client\_101 | order\_001 | 2023-05-03 | prod\_123 | Microwave | 2 | 499.99 |
| Client\_102 | order\_002 | 2023-05-01 | prod\_456 | Monitor | 1 | 199.99 |
| Client\_103 | order\_003 | 2023-05-06 | prod\_789 | Desktop | 3 | 499.99 |
| Client\_101 | order\_004 | 2023-05-10 | prod\_123 | Microwave | 1 | 249.99 |
| Client\_102 | order\_005 | 2023-05-12 | prod\_456 | Monitor | 2 | 399.98 |
| Client\_104 | order\_006 | 2023-05-01 | prod\_789 | Desktop | 2 | 499.99 |
| Client\_103 | order\_007 | 2023-05-20 | prod\_123 | Microwave | 1 | 249.99 |
| Client\_101 | order\_008 | 2023-05-22 | prod\_456 | Monitor | 1 | 199.99 |
| Client\_104 | order\_009 | 2023-05-25 | prod\_789 | Desktop | 1 | 249.99 |
| Client\_102 | order\_010 | 2023-05-01 | prod\_123 | Microwave | 2 | 499.98 |

Data in dictionary format is give below:

data = [ {'Client\_id': 'Client\_101', 'order\_id': 'order\_001', 'order\_date': '2023-05-03', 'prod\_id': 'prod\_123', 'prod\_name': 'Microwave', 'quantity': 2, 'total\_price': 499.99}, {'Client\_id': 'Client\_102', 'order\_id': 'order\_002', 'order\_date': '2023-05-01', 'prod\_id': 'prod\_456', 'prod\_name': 'Monitor', 'quantity': 1, 'total\_price': 199.99}, {'Client\_id': 'Client\_103', 'order\_id': 'order\_003', 'order\_date': '2023-05-06', 'prod\_id': 'prod\_789', 'prod\_name': 'Desktop', 'quantity': 3, 'total\_price': 499.99}, {'Client\_id': 'Client\_101', 'order\_id': 'order\_004', 'order\_date': '2023-05-10', 'prod\_id': 'prod\_123', 'prod\_name': 'Microwave', 'quantity': 1, 'total\_price': 249.99}, {'Client\_id': 'Client\_102', 'order\_id': 'order\_005', 'order\_date': '2023-05-12', 'prod\_id': 'prod\_456', 'prod\_name': 'Monitor', 'quantity': 2, 'total\_price': 399.98}, {'Client\_id': 'Client\_104', 'order\_id': 'order\_006', 'order\_date': '2023-05-01', 'prod\_id': 'prod\_789', 'prod\_name': 'Desktop', 'quantity': 2, 'total\_price': 499.99}, {'Client\_id': 'Client\_103', 'order\_id': 'order\_007', 'order\_date': '2023-05-20', 'prod\_id': 'prod\_123', 'prod\_name': 'Microwave', 'quantity': 1, 'total\_price': 249.99}, {'Client\_id': 'Client\_101', 'order\_id': 'order\_008', 'order\_date': '2023-05-22', 'prod\_id': 'prod\_456', 'prod\_name': 'Monitor', 'quantity': 1, 'total\_price': 199.99}, {'Client\_id': 'Client\_104', 'order\_id': 'order\_009', 'order\_date': '2023-05-25', 'prod\_id': 'prod\_789', 'prod\_name': 'Desktop', 'quantity': 1, 'total\_price': 249.99}, {'Client\_id': 'Client\_102', 'order\_id': 'order\_010', 'order\_date': '2023-05-01', 'prod\_id': 'prod\_123', 'prod\_name': 'Microwave', 'quantity': 2, 'total\_price': 499.98}]