

Exercise 1- SQL

Question 1

- 1.1. What is the purpose of the DROP TABLE statement at the beginning of the script?
- 1.2. Explain the primary key constraint in the CUSTOMERS table. Why is it important?
- 1.3. How do you insert a new record into the ITEMS table? Provide an example.

Question 2

- 2.1. What are the data types used in the CUSTOMERS table and why are they appropriate for each column?
- 2.2. Identify the foreign keys in the ORDERS table. Why are they important?
- 2.3. Describe the relationship between the ORDERS table and the CUSTOMERS, ITEMS, and COURIER tables.

Question 3

- 3.1. Write a query to update the price of an item in the ITEMS table where the ITEMID is 2006.
- 3.2. How would you delete a customer record from the CUSTOMERS table where the CUSTOMERID is 105?
- 3.3. Write a query to add a new courier to the COURIER table.

Question 4

- 4.1. Write a query to find the total number of orders placed by each customer.
- 4.2. Write a query to retrieve all orders placed in the year 2016.
- 4.3. Write a query to calculate the total amount due for each order in the ORDERS table.

Question 5

- 5.1. Write a query to find the details of the customer with CUSTOMERID 104.
- 5.2. Write a query to list all items that weigh more than 1.5 kg.
- 5.3. Write a query to retrieve the name and phone number of couriers who have made deliveries in May 2015.

Question 6

- 6.1. Explain the role of the CONSTRAINT keyword in the script.
- 6.2. What would happen if you tried to insert an order with a non-existent CUSTOMERID?
- 6.3. How would you modify the ORDERS table to add a new column for order status (e.g., 'Pending', 'Shipped', 'Delivered')?

Question 7

- 7.1. Write a query to extract the month and year from the ORDERDATE in the ORDERS table.
- 7.2. How would you modify the script to insert the current date into the ORDERS table instead of a fixed date?
- 7.3. Write a query to find all orders placed in the last 30 days.