Task 1.

USE sql\_store;

SELECT \*

FROM customers

WHERE CUSTOMER\_ID=1

order by first\_name;

Task 2.

Select last\_name, first\_name, points, (points+ 10) \* 100 as discount\_factor from customers;

Task 3.

SELECT name, unit\_price, unit\_price \* 1.1 AS new\_price

FROM products;

Or

USE sql\_store;

ALTER table products

ADD COLUMN newprice DECIMAL(10, 2);

UPDATE products SET newprice = unit\_price \* 1.1;

SELECT \* FROM products;

Task 4.

SELECT \*

FROM customers

WHERE birth\_date > '1990-01-01';

Task 5.

select max(quantity\_in\_stock) from products;

Task 6.

select \* from products

order by unit\_price desc limit 1;

Task 6

select first\_name,last\_name,address,birth\_date from customers

order by birth\_date asc limit 1;

Task 7

Tables are the basic structure of a SQL database. A table is composed of rows and columns, and each row represents a record of data. Primary keys are unique values used to identify each record in a table. They are also used to create relationships between tables. Foreign keys are columns in a table that reference the primary key of another table. They are used to create relationships between tables, so that data from one table can be referenced in another table.

So in the Customer table we have the Primary key as being the Customer ID which is the Foreign key in the Orders table. The two tables have a one-to-many relationship as each customer can have more than one order.

In the Orders table the primary key is Order ID which is the foreign key in the Order Items table. Each Order could be composed of many items.

In the Order ID table the Foreign key is the Product ID which is the Primary key in the Products Table. Here we have a one to many relationship where each product can be included in many order items.

Each order has a one shipping ID and Order Status ID. Each Shipper could have many orders so is a one to many relationship.

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