drop database if exists sql\_basics;

create database sql\_basics;

use sql\_basics;

-- create a product table with fields as product code, product name, price, stock and category --

-- customer table with the fields as customer id, customer name, customer location, and customer phone number --

-- sales table with the fields as date, order number, product code, product name, quantity, and price --

-- Write a query to insert values into the tables --

create table Product(

product\_code int,

product\_name Varchar(30),

price int,

stock int,

category varchar(30)

);

drop table customer;

create table customer(

customer\_id int,

customer\_name varchar(40),

customer\_location varchar(40),

customer\_phonenumber int

);

drop table sales;

CREATE TABLE IF NOT EXISTS sales (

order\_date DATETIME,

order\_no VARCHAR(10),

customer\_id INT,

customer\_name VARCHAR(10),

product\_code INT,

product\_name VARCHAR(20),

quantity INT,

price INT

);

-- write a query to insert values in table --

INSERT INTO product VALUES (01,'tulip',198,5,'perfume'),

(02,'cornoto',50,21,'icecream'),

(03,'Pen',10,52,'Stationary'),

(04,'Lays',10,20,'snacks'),

(05,'mayanoise',90,10,'dip'),

(06,'jam',105,10,'spread'),

(07,'shampoo',5,90,'hair product'),

(08,'axe',210,4,'perfume'),

(09,'park avenue',901,2,'perfume'),

(10,'wattagirl',201,3,'perfume'),

(11,'pencil',4,10,'Stationary'),

(12,'sharpener',5,90,'Stationary'),

(13,'sketch pen',30,10,'Stationary'),

(14,'tape',15,30,'Stationary'),

(15,'paint',60,12,'Stationary'),

(16,'chocolate',25,50,'snacks'),

(17,'biscuts',60,26,'snacks'),

(18,'mango',100,21,'fruits'),

(19,'apple',120,9,'fruits'),

(20,'kiwi',140,4,'fruits'),

(21,'carrot',35,12,'vegetable'),

(22,'onion',22,38,'vegetable'),

(23,'tomato',21,15,'vegetable'),

(24,'serum',90,4,'hair product'),

(25,'conditioner',200,5,'hair product'),

(26,'oil bottle',40,2,'kitchen utensil');

select \* from product;

INSERT INTO customer VALUES (1111,'Nisha','kerala',8392320),

(1212,'Oliver','kerala',4353891),

(1216,'Nila','delhi',3323242),

(1246,'Vignesh','chennai',1111212),

(1313,'shiny','Maharastra',5454543),

(1910,'Mohan','mumbai',9023941),

(2123,'Biyush','Bombay',1253358),

(3452,'Alexander','West Bengal',1212134),

(3921,'Mukesh','Manipur',4232321),

(5334,'Christy','pakistan',2311111),

(9021,'Rithika','Kashmir',1121344),

(9212,'Jessica','banglore',1233435),

(9875,'Stephen','chennai',1212133);

select \* from customer;

INSERT INTO sales VALUES ('2016-07-24 00:00:00','HM06',9212,'Jessica',11,'pencil',3,30),

('2016-10-19 00:00:00','HM09',3921,'Mukesh',17,'biscuits',10,600),

('2016-10-30 00:00:00','HM10',9875,'Stephen',02,'cornoto',10,500),

('2018-04-12 00:00:00','HM03',1212,'Oliver',20,'kiwi',3,420),

('2018-05-02 00:00:00','HM05',1910,'Mohan',20,'kiwi',2,280),

('2018-09-20 00:00:00','HM08',5334,'Chirsty',16,'chocolate',2,50),

('2019-01-11 00:00:00','HM07',1246,'Vignesh',19,'apple',5,600),

('2019-03-15 00:00:00','HM01',1910,'Mohan',05,'mayanoise',4,360),

('2021-02-10 00:00:00','HM04',1111,'Nisha',25,'conditioner',5,1000),

('2021-02-12 00:00:00','HM02',2123,'Biyush',03,'Pen',2,20);

select \* from sales;

-- query to add two new columns such as S\_no and categories to the sales table --

ALTER TABLE sales

ADD S\_no INT,

ADD categories VARCHAR(50);

-- Write a query to change the column type of stock in the product table to varchar--

ALTER TABLE product

MODIFY stock VARCHAR(50);

-- Write a query to change the table name from customer-to-customer details --

RENAME TABLE customer TO customer\_details;

-- Write a query to drop the columns S\_no and categories from the sales table --

ALTER TABLE sales

DROP COLUMN S\_no,

DROP COLUMN categories;

-- Write a query to display order no, customer id, order date, price, and quantity from the sales table --

SELECT order\_no, customer\_id, order\_date, price, quantity

FROM sales;

-- Write a query to display all the details in the product table if the category is stationary --

SELECT \*

FROM product

WHERE category = 'stationary';

-- Write a query to display a unique category from the product table --

SELECT DISTINCT category

FROM product;

-- Write a query to display the sales details if quantity is greater than 2 and price is lesser than 500 from the sales table --

SELECT \*

FROM sales

WHERE quantity > 2 AND price < 500;

-- Write a query to display the customer’s name if the name ends with a --

SELECT customer\_name

FROM customer\_details

WHERE customer\_name LIKE '%a';

-- Write a query to display the product details in descending order of the price --

SELECT \*

FROM product

ORDER BY price DESC;

-- Write a query to display the product code and category from similar categories that are greater than or equal to 2 --

SELECT product\_code, category

FROM product

GROUP BY product\_code, category

HAVING COUNT(\*) >= 2;

-- Write a query to display the order number and the customer name to combine the results of the order and the customer tables including duplicate rows --

SELECT order\_number, customer\_name

FROM orders

UNION ALL

SELECT order\_number, customer\_name

FROM customers;