SQL Practice Project -1 submitted by Sujit Sonar:

Retail Mart Management.

DESCRIPTION

A data analyst of a retail shop, Happy Mart, wants to store the product details, the customer details, and the order details to provide unparalleled insights about customer behavior and product stock details daily.

Objective:

The design of the database helps to easily evaluate and identify the performance of the shop to increase the daily sales.

Task to be performed:

• Write a query to create a database named **SQL basics**.

Create database if not exists SQL_basics;



- Write a query to select the database SQL basics.
 use SQL_basics;
- Write a query to 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 and, sales table with the fields as date, order number, product code, product name, quantity, and price.

Customer Table:

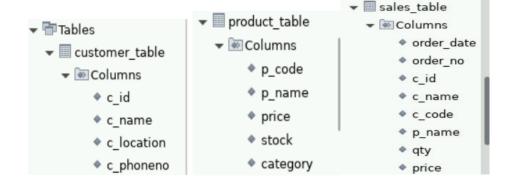
```
create table customer_table(
c_id int not nul primary key,
c_name varchar(225),
c_location varchar(225),
c_phoneno varchar(225);
```

Product Table:

```
create table product_table(
p_code int not null primary key,
p_name varchar(225),
price double;
stock int,
category varchar(225);
```

Sales Table:

```
create table sales_table(
order_date date,
order_no varchar(225),
c_id int,
c_name varchar(225),
c_code int,
p_name varchar(225),
qty int,
price double;
```



• Write a query to **insert values** into the tables.

Inserting values into product_table:

```
Insert into SQL_basics.prodct_table
(p_code, p_name, price, stock, category)
Values
(1,'tulip',198,5,'perfume')
(2,'cornoto',50,21,'icecream')
(3,'Pen',10,52,'Stationary')
(4, 'Lays', 10, 20, 'snacks')
(5, 'mayanoise', 90, 10, 'dip')
(6, 'jam', 105, 10, 'spread')
(7, 'shampoo', 5, 90, 'hair product')
(8,'axe',210,4,'perfume')
(9,'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');
     p code p name
                           price stock category
1
             tulip
                           198 5
    1
                                        prfume
2
    2
             cornoto
                           50
                                 21
                                        icecream
3
     3
                           10
                                 52
             Pen
                                        Stationary
4
    4
                           10
                                 20
             Lays
                                        snacks
5
    5
                           90
             mayanoise
                                 10
                                        dip
6
    6
                           105
                                 10
                                        spread
             jam
```

Inserting values into customer_table:

```
Insert into table SQL basics.customer table
(c id int, c name, c location, c phoneno)
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');
 Result Grid 🎚 🙌 Filter Rows: 🔾
                                                 Edit:
      c id c name
                       c location
                                   c phonenc
  1
      1111 Nisha
                       kerala
                                    8392320
  2
                                   4353891
      1212 Oliver
                       kerala
  3
      1216 Nila
                       delhi
                                   3323242
      1246 Vignesh
                       chennai
                                    1111212
      1313 shiny
                       Maharastra
                                   5454543
      1910 Mohan
                       mumbai
                                    9023941
```

Inserting values into sales_table:

2018-09-20 HM08

```
Insert into SQL_basics.sales_table
(order_date, order_no, c_id, c_name, c_code, p_name, qty, price)
('2016-24-07', 'HM06', 9212, 'Jessica', 11, 'pencil', 3, 30)
('2016-19-10', 'HM09', 3921, 'Mukesh', 17, 'biscuits', 10,600)
('2016-30-10', 'HM10', 9875, 'Stephen', 2, 'cornoto', 10, 500)
('2018-12-04', 'HM03', 1212, 'Oliver', 20, 'kiwi', 3, 420)
('2018-02-05', 'HM05', 1910, 'Mohan', 20, 'kiwi', 2, 280)
('2018-20-09', 'HM08', 5334, 'Chirsty', 16, 'chocolate', 2,50)
('2019-11-01','HM07',1246,'Vignesh',19,'apple',5,600)
('2019-15-03', 'HM01', 1910, 'Mohan', 5, 'mayanoise', 4,360)
('2021-10-02','HM04',1111,'Nisha',25,'conditioner',5,1000)
('2021-12-02','HM02',2123,'Biyush',3,'Pen',2,20);
Result Grid 🎚 🙌 Filter Rows: 🔾
                                        Export: Wrap Cell Content
   qty price
1
   2016-07-24 HM06
                    9212 Jessica 11
                                        pencil
                                                  3
                                                       30
   2016-10-19 HM09
                     3921 Mukesh 17
                                        biscuits
                                                  10
                                                      600
   2016-10-30 HM10
                     9875 Stephen 2
                                        cornoto
                                                  10
                                                      500
   2018-04-12 HM03
                     1212 Oliver 20
                                         kiwi
                                                  3
                                                       420
   2018-05-02 HM05
                     1910 Mohan
                                  20
                                        kiwi
                                                  2
                                                       280
```

5334 Christy 16

chocolate

2

50

• Write a query to add two new columns such as **S_no** and **categories** to the sales table.

Alter table SQL basics.sales table Add column S no int, Add column categories varchar(225); Result Grid 🏭 🙌 Filter Rows: 🔾 Export: Wrap Cell Content: IA order_date order_nc c_id c_name c_code p_name qty price S_no categories 1 2016-07-24 HM06 9212 Jessica 11 30 HULL pencil 3 NULL 2016-10-19 HM09 3921 Mukesh 17 biscuits 600 NULL 10 3 2016-10-30 HM10 9875 Stephen 2 cornoto 10 500 NULL

• Write a query to change the column type of **stock** in the product table to **varchar**.



alter table SQL_basics.product_table
change column stock stock varchar(225);



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

alter table SQL_basics.customer_table rename customer_details;



alter table SQL basics.sales table

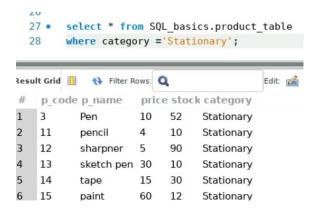
• Write a query to **drop** the columns **S_no** and **categories** from the sales table.

drop column S_no, drop column categories; 16 • select * from SQL_basics.sales_table; sult Grid 🎚 🙌 Filter Rows: 🔾 Export: Wrap Cell Content: IA order date order nc c id c name c code p name qty price 2016-07-24 HM06 9212 Jessica 11 3 30 pencil 2016-10-19 HM09 3921 Mukesh 17 10 600 biscuits 2016 10 20 HM10 OOTE Stanban 2 10 EOO

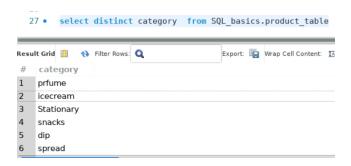
• Write a query to **display** order id, customer id, order date, price, and quantity from the sales table.



• Write a query to display all the details in the product table if the **category is stationary**.



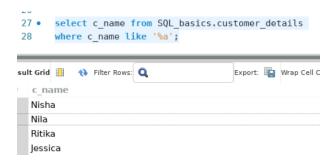
• Write a query to display a **unique category** from the product table.



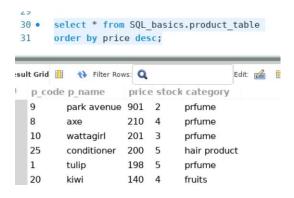
• Write a query to display the sales details if **quantity is greater than 2** and **price is lesser than 500** from the sales table.



• Write a query to display the customer's name if the **name ends with a**.



• Write a query to display the product details in **descending order** of the **price**.



• Write a query to display the product code and category from **similar categories** that are **greater than or equal to 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**.

