**BILLING SYSTEM FOR GERNEAL STORE**

**ABSTRACT:**

The Comprehensive Billing System for General Stores is a robust and efficient solution designed to streamline and automate the billing processes in a general store setting. This system is built on the foundation of a well-structured SQL (Structured Query Language) database, ensuring data integrity, reliability, and ease of management.

**AIM OF PROJECT:**

The aim of the Billing System for General Store in SQL project is to create an efficient and reliable software solution that automates the billing processes in a general store environment.

**INTRODUCTION:**

The Billing System for General Store in SQL is a comprehensive software solution designed to address the intricate needs of billing and inventory management in a general store setting. As technology continues to revolutionize the retail landscape, the demand for efficient and automated systems becomes increasingly crucial. This project introduces a robust SQL-based billing system tailored to enhance operational efficiency, accuracy, and decision-making within a general store environment.

|  |
| --- |
| **BillDetails** |
| BillID (PK) |
| Cus\_ID (FK) |
| Prod\_ID (FK) |
| Prod\_Name |
| Prod\_Price |
| Prod\_Quantity |
| Total\_Price |
| Prod\_Price |
| Date\_of\_Purchase |
| Payment |

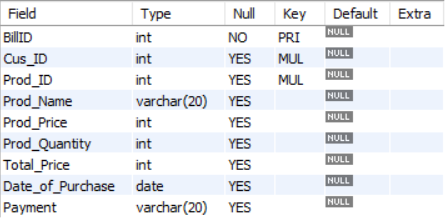
|  |
| --- |
| **CustomerDetails** |
| Cus\_ID (PK) |
| Cus\_Name |
| Cus\_Address |
| Cus\_Mobile |

|  |
| --- |
| **ProductDetails** |
| Prod\_ID (PK) |
| Prod\_Name |
| Prod\_Price |

**STRUCTURE OF TABLE**

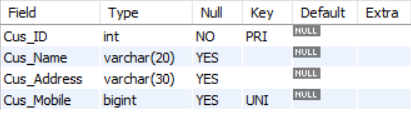
BillDetails

DESC BillDetails;



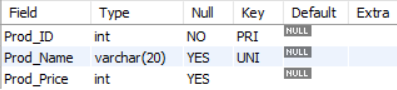
CustomerDetails

DESC CustomerDetails;



ProductDetails

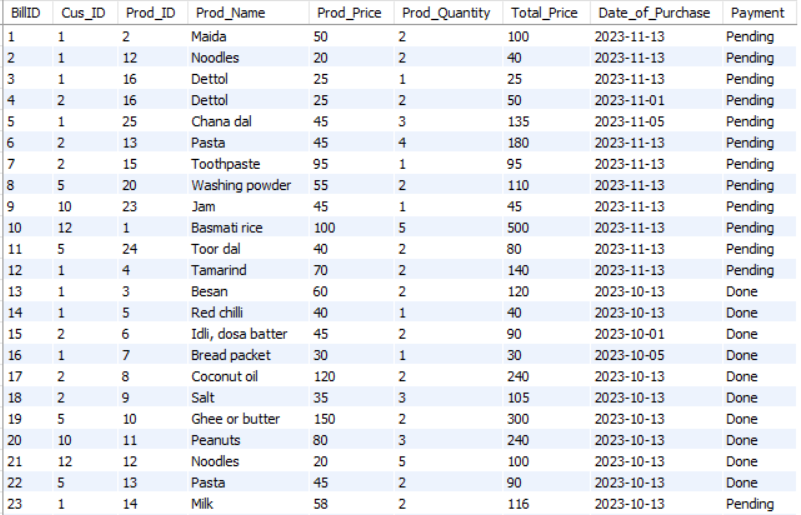
DESC ProductDetails;

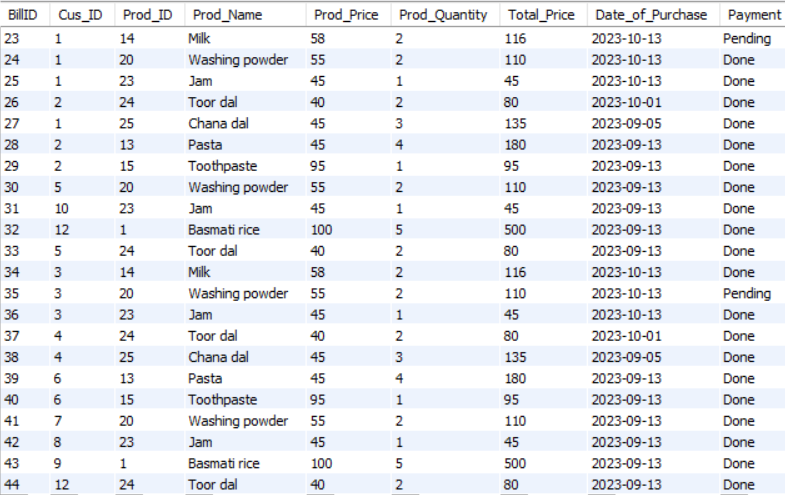


**CONTENTS OF TABLES**

BillDetails

SELECT \* from BillDetails;





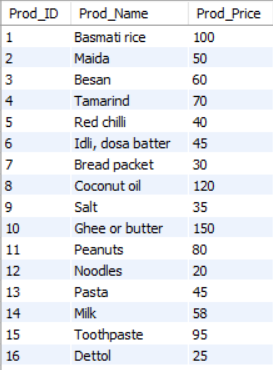
CustomerDetails

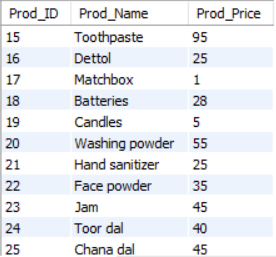
SELECT \* from CustomerDetails;



ProductDetails

SELECT \* from ProductDetails;





**VIEWS**

1.Create a table for the BillDetails and CustomerDetails associated with accview.

**QUERY:**

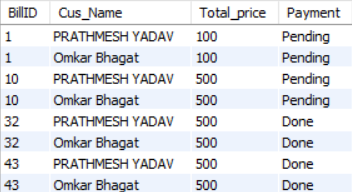
create view accview as select

BillDetails.BillID,CustomerDetails.Cus\_Name, BillDetails.Total\_price,

BillDetails.Payment from BillDetails,CustomerDetails where

BillDetails.Prod\_Name in ('Maida','Basmati rice') and CustomerDetails.Cus\_Name in ('Omkar Bhagat','PRATHMESH YADAV');

select \* from accview;



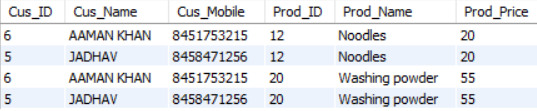
2.Create a table for the CustomerDetails and ProductDetails associated with kssview.

**QUERY:**

create view kssview as select

CustomerDetails.Cus\_ID,CustomerDetails.Cus\_Name,CustomerDetails.Cus\_Mobile,ProductDetails.Prod\_ID,ProductDetails.Prod\_Name,ProductDetails.Prod\_Price from CustomerDetails, ProductDetails where CustomerDetails.Cus\_ID in(5,6) and ProductDetails.Prod\_ID in(12,20);

select \* from kssview;



3.Show the CustomerDetails and BillDetails associated with golview.

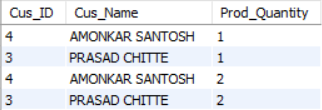
**QUERY:**

create view golview as select

CustomerDetails.Cus\_ID,CustomerDetails.Cus\_Name,BillDetails.Prod\_Quantity from CustomerDetails,BillDetails

where CustomerDetails.Cus\_ID in (3,4) and BillDetails.BillID in (3,4);

select \* from golview;

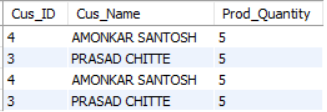


4. Update the detail of view.

**QUERY:**

update golview set Prod\_Quantity=5 where Cus\_ID=3;

select \* from golview;



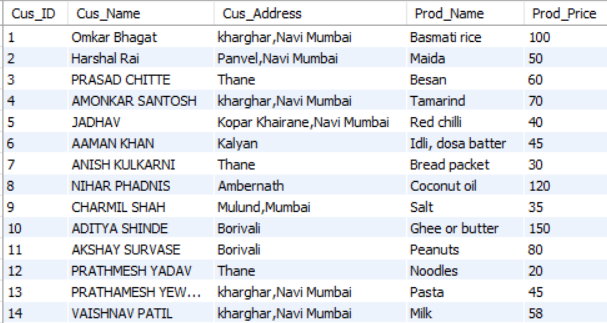
**Joins**

1.Left join:

**QUERY:**

select c.Cus\_ID,c.Cus\_Name,c.Cus\_Address,

p.Prod\_Name,p.Prod\_Price from CustomerDetails c left join ProductDetails p on c.Cus\_ID=p.Prod\_ID;

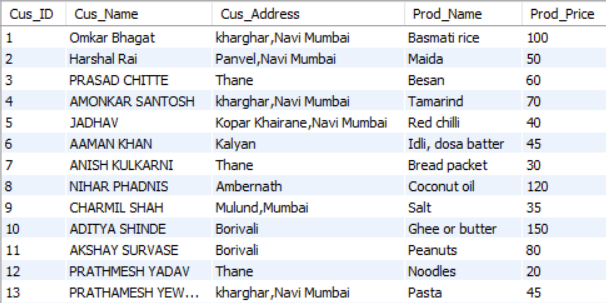


2.Right Join:

**QUERY:**

select c.Cus\_ID,c.Cus\_Name,c.Cus\_Address,

p.Prod\_Name,p.Prod\_Price from CustomerDetails c right join ProductDetails p on c.Cus\_ID=p.Prod\_ID;



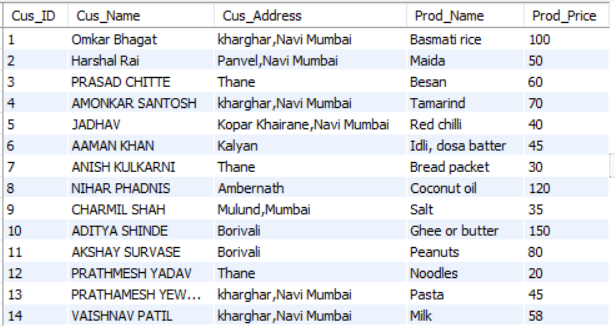


3.Cross join:

**QUERY:**

select c.Cus\_ID,c.Cus\_Name,c.Cus\_Address,

p.Prod\_Name,p.Prod\_Price from CustomerDetails c cross join ProductDetails p on c.Cus\_ID=p.Prod\_ID;

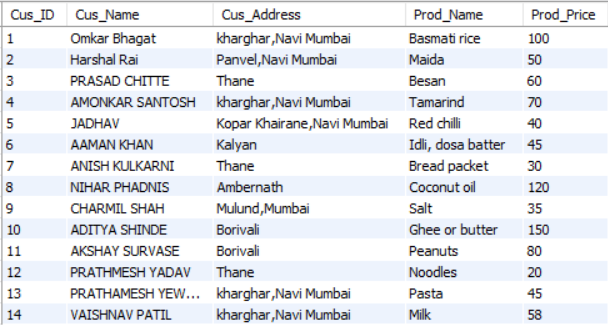


4.Inner join:

**QUERY:**

select c.Cus\_ID,c.Cus\_Name,c.Cus\_Address,

p.Prod\_Name,p.Prod\_Price from CustomerDetails c inner join ProductDetails p on c.Cus\_ID=p.Prod\_ID;



**SUBQUERIES**

**QUERY:**

select \* from ProductDetails where Prod\_ID in (select Cus\_ID from

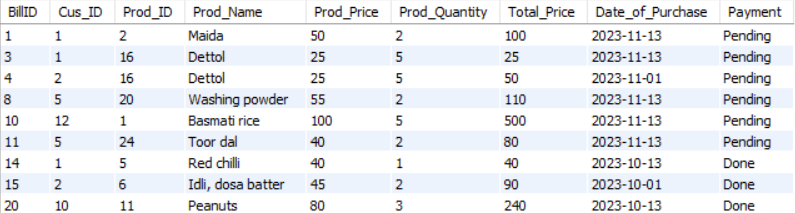
CustomerDetails where Cus\_Name ="CHARMIL SHAH") having Prod\_Price>20;



**QUERY:**

select \* from BillDetails where BillID in (select Prod\_ID from

ProductDetails where Prod\_Price>50);



**QUERY:**

select \* from BillDetails where BillID in (select Prod\_ID from

ProductDetails where Prod\_Name="Ghee or butter") having Total\_Price>200;



**BUILT -IN FUNCTIONS**

**1.MATH**

**QUERY:**

select round (78.48);



**QUERY:**

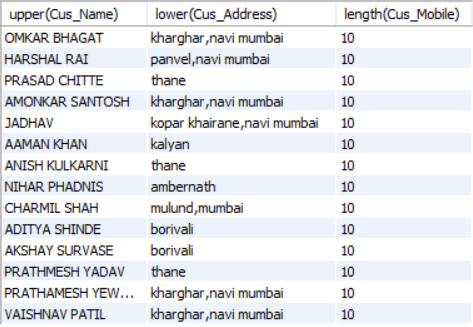
select sqrt (64);



**2.STRING**

**QUERY:**

select upper(Cus\_Name),lower(Cus\_Address), length(Cus\_Mobile) from CustomerDetails;



**3.DATETIME**

**QUERY:**

select date\_format('2023-07-16','%y');



**QUERY:**

select sysdate();



**4.AGGREGATE**

**QUERY:**

select count(Total\_Price) from BillDetails where Cus\_ID=2 and Date\_of\_Purchase>'2023-10-31' and Payment="Pending";



**QUERY:**

select sum(Total\_Price) from BillDetails where Cus\_ID=1 and Date\_of\_Purchase>'2023-10-31' and Payment="Pending";

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**THANKYOU**