VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

"Jnana Sangama", Belgaum-590018

A Report On

"Dairy Management System"

Submitted by

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CERTIFICATE

Certifies that the project work titled "**Dairy Management System**" is a work carried out by **MANJUNATHA T(4NI19IS045), MOHAMMED ZABI(4NI19IS048), BHANUPRASAD L(4NI19IS021), GOURISH S ANKOLEKAR(4NI19IS033)** in partial fulfilment for the requirements of the fourth semester BE in Information Science & Engineering prescribed by The National Institute of Engineering, Autonomous Institution under Visvesvaraya Technological University, Belagavi. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated. The Project report has been approved as it satisfies the academic requirements in respect of the project work prescribed for the fourth semester in Data Base Laboratory.

Signature of Guides	Signature of HOD	Signature of Principal
1. 2.	(Dr. P DEVAKI)	(Dr. N V RAGHAVENDRA)

Name of the Examiner	Signature with Date
1.	
2.	

ABSTRACT

This project deals with the management of milk dairy. It deals with the purchase and sale of milk by making records in the database. The first step in the project is to add a staff member to the database, then make purchase by specifying the milk type and rates with quantity. These added values will be displayed in the stock section and sales made in the transaction section. All create, read, update and delete operations are supported in this project for complete CRUD representation.

This Database project system gives the user the information about the purchase and sale of milk by maintaining records in the database, it also gives user an easy way to analyze the quantity of milk sold/remaining, regularity of dealer with dairy and many things related to Dairy Management.

ACKNOWLEDGEMENT

The success and the final outcome of this project required a lot of guidance and assistance from many people and we are extremely fortunate to have got this all along the completion of project work.

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We are grateful to **Dr. P DEVAKI,** Prof.& H.O.D., Information Science and Engineering, NIE for her support and encouragement in facilitating the progress of this work.

We sincerely extend our thanks to our project Guides **Ms. PRATHIBHA B S, Ms. and Ms. SHWETHA S** Assistant Professor in the Dept. of I.S.&E., for their guidance, technical expertise, encouragement and timely help in making this project a reality.

Also, we would like to extend our sincere regards to all the non-teaching staff of the IS&E Dept. for their timely support.

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INTRODUCTION

Milk is a perfect food. It is a part and parcel of the diet of all young and old. It is essential for the proper growth of the human body. It is a balanced diet. It contains proteins, carbohydrates, fats, minerals and vitamins in the ratio in which they are needed for the proper development of the body. This is why its best suit for babies and the sick.

This project deals with the management of milk dairy. It deals with the purchase and sale of milk by making records in the database. The first step in the project is to add a staff member to the database, then make purchase by specifying the milk type and rates with quantity. These added values will be displayed in the stock section and sales made in the transaction section. All create, read, update and delete operations are supported in this project for complete CRUD representation

We even created the relationship tables like inventory table, purchase table, sales table, seller table, staff table, transaction table.

PROPOSED SYSTEM

The proposed system is the Dairy Management System. This database contains the entities which are,

- inventorytable - It relates the staffid, milktype and quantity of milk in the stock.
- purchasetable - It relates amount of milk purchased from the seller and their information.
- stafftable - It relates staff's information like their gender, name, address and their contact number.
- transactiontable - It relates the transaction information like date of transaction, debit/credit card transaction, total bill and respective staffid.
- salestable – It relates to milk, quantity, its rate sold by staff and the customer/dealer name with total amount.
- sellertable – It relates to all the details of the seller/distributer of milk from the factory.

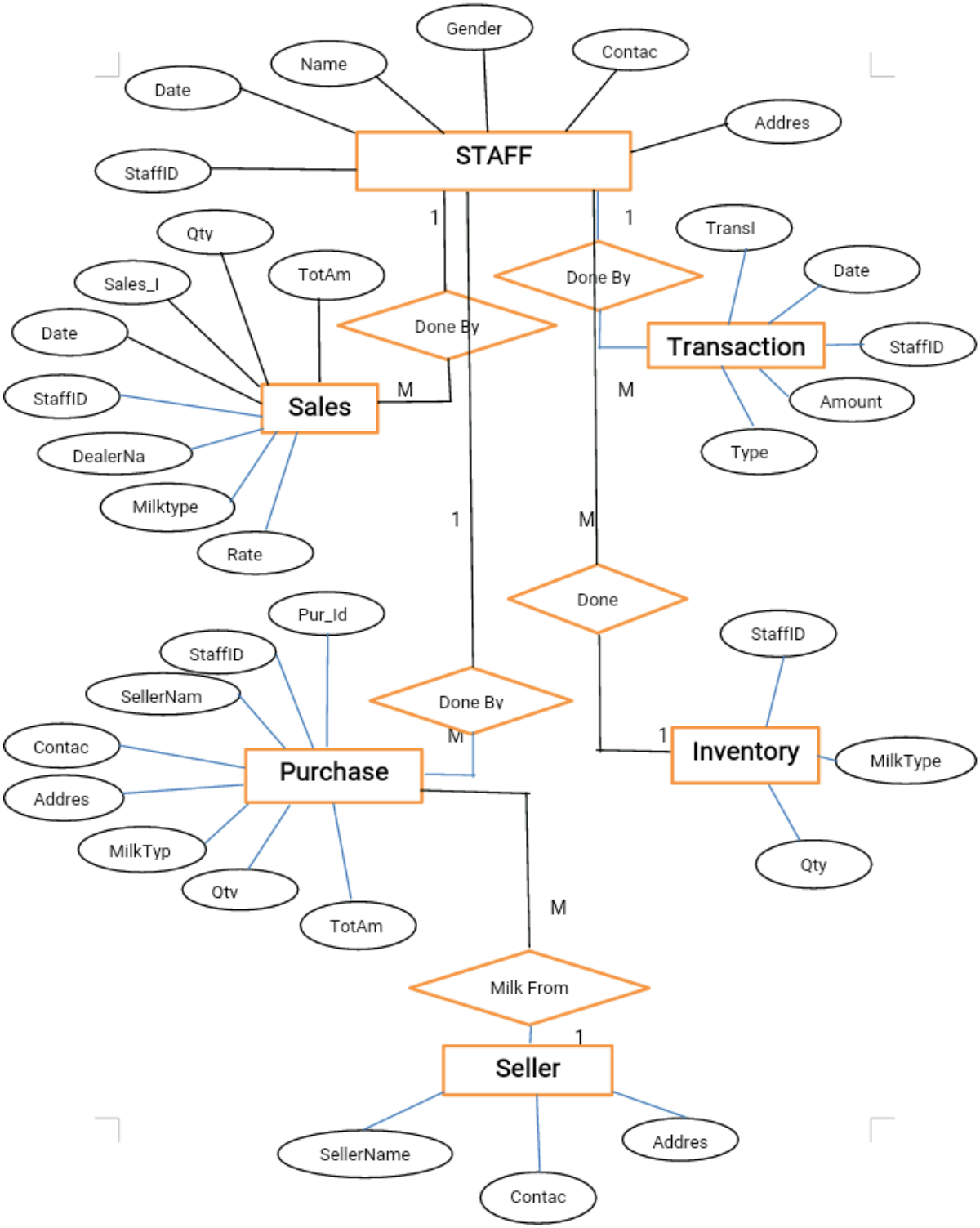
This system will give the user an easy way to analyze the milk dairy management system.

Software requirements **Operating System - Windows 10**
Programming Language - Java, SQL
Tools - Eclipse, Mysql

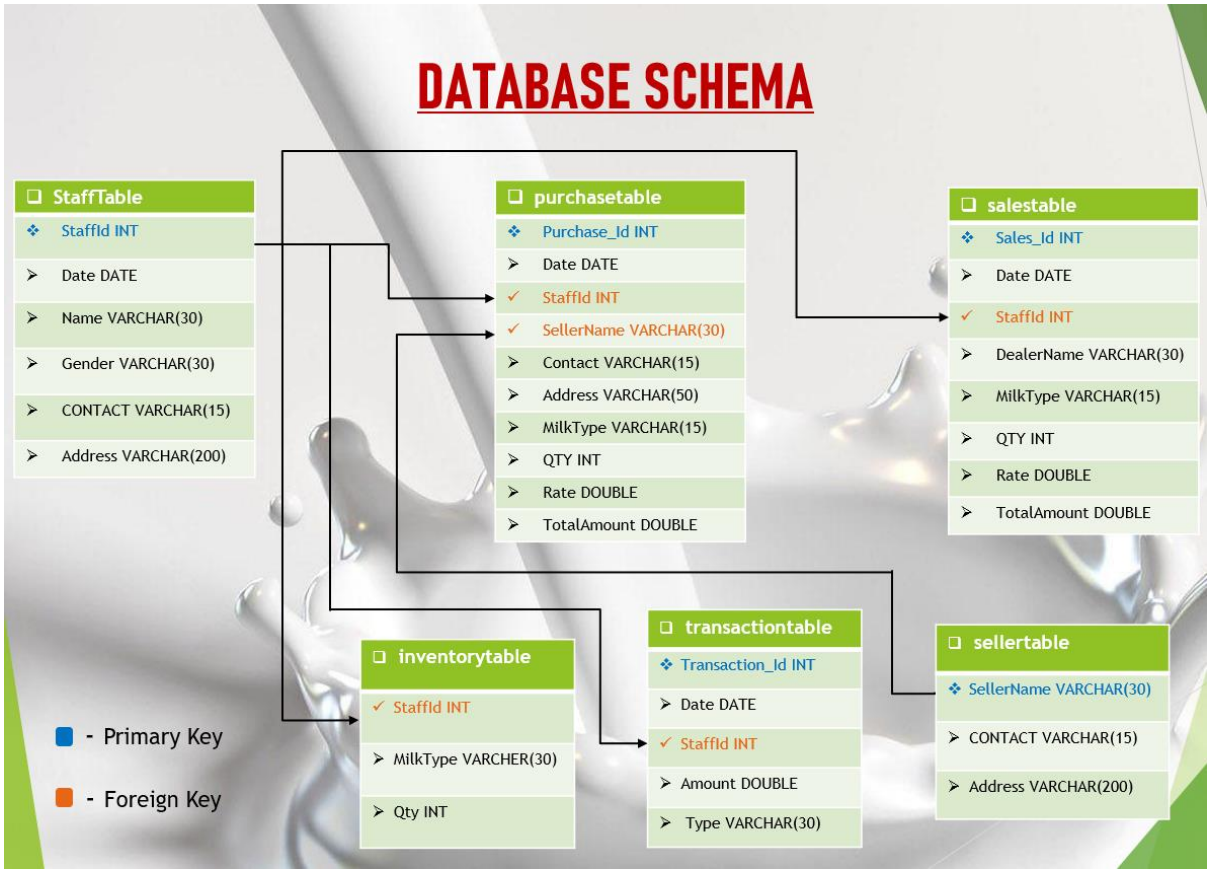
Hardware Requirements **Processor - i3 or above versions/**
AMD Ryzen 3 or above versions.
Memory - 10GB or above
Any other devices - Peripheral Devices

SYSTEM DESIGN

1. ER diagram



2.Schema Diagram



Implementation

Purchase table:

```
CREATE TABLE PurchaseTable(
        Purchase_Id` INT NOT NULL,
        Date` Date NOT NULL,
        StaffId` INT NOT NULL,
        SellerName` VARCHAR(30) NOT NULL,
        Contact` VARCHAR(15) NOT NULL,
        Address` VARCHAR (50) NOT NULL,
        MilkType` VARCHAR (15) NOT NULL,
        QTY` INT NOT NULL,
        Rate` DOUBLE  NOT NULL,
        TotalAmount` Double NOT NULL,

         PRIMARY KEY (`Purchase_Id`), FOREIGN KEY (StaffId) references
        StaffTable(StaffId),
         FOREIGN KEY (SellerName) references SellerTable(SellerName));
```

Seller table:

```
CREATE TABLE `SellerTable` (
  SellerName` VARCHAR(30) NOT NULL,
  CONTACT` VARCHAR (15) NOT NULL,
  Address` VARCHAR(200) NOT NULL,

  PRIMARY KEY (`SellerName`));
```

Salestable:

```
CREATE TABLE SalesTable(
 Sales_Id` INT NOT NULL,
 Date` Date  NOT NULL,
 StaffId` INT NOT NULL,
 DealerName` VARCHAR(30) NOT NULL,
 MilkType` VARCHAR (15) NOT NULL,
 QTY INT NOT NULL,
 Rate DOUBLE  NOT NULL,
 TotalAmount Double NOT NULL,
  PRIMARY KEY (`Sales_Id`), FOREIGN KEY (StaffId) references StaffTable(StaffId));
```

Staff table:

```
CREATE TABLE StaffTable(
  `StaffId` INT NOT NULL,
  `Date` Date NOT NULL,
   `Name` VARCHAR(30) NOT NULL,
  `Gender` VARCHAR(30) NOT NULL,
  `CONTACT` VARCHAR (15) NOT NULL,
  `Address` VARCHAR(200) NOT NULL,

  PRIMARY KEY (`StaffId`));
```

Transaction Table:

```
CREATE TABLE TransactionTable(

`Transaction_Id` INT NOT NULL,
 `Date` Date NOT NULL,
 `StaffId` INT NOT NULL,
 `Amount` Double NOT NULL,
 `Type` VARCHAR(30) NOT NULL,
  PRIMARY KEY (`Transaction_Id`), FOREIGN KEY (StaffId) references
StaffTable(StaffId));
```

Inventory table:

```
CREATE TABLE InventoryTable(

  `StaffId` INT NOT NULL,
  `MilkType` VARCHAR (30) NOT NULL,
  `Qty` int NOT NULL,
   FOREIGN KEY (StaffId) references StaffTable(StaffId));
```

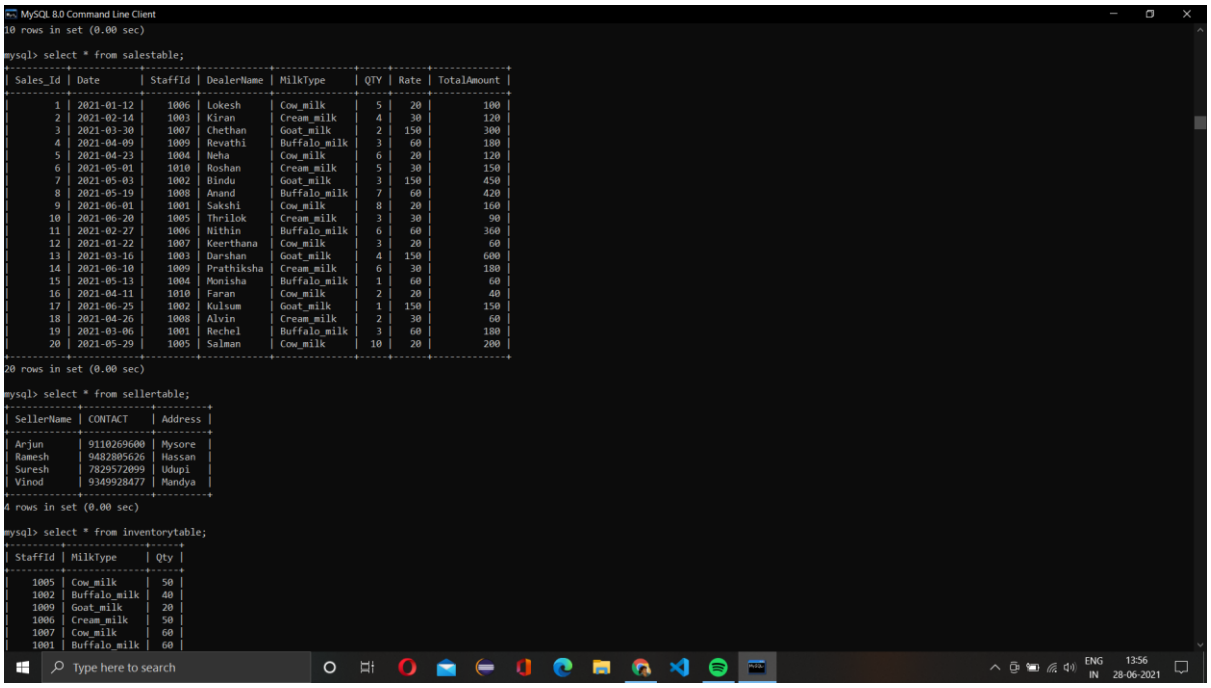
CONCLUSION

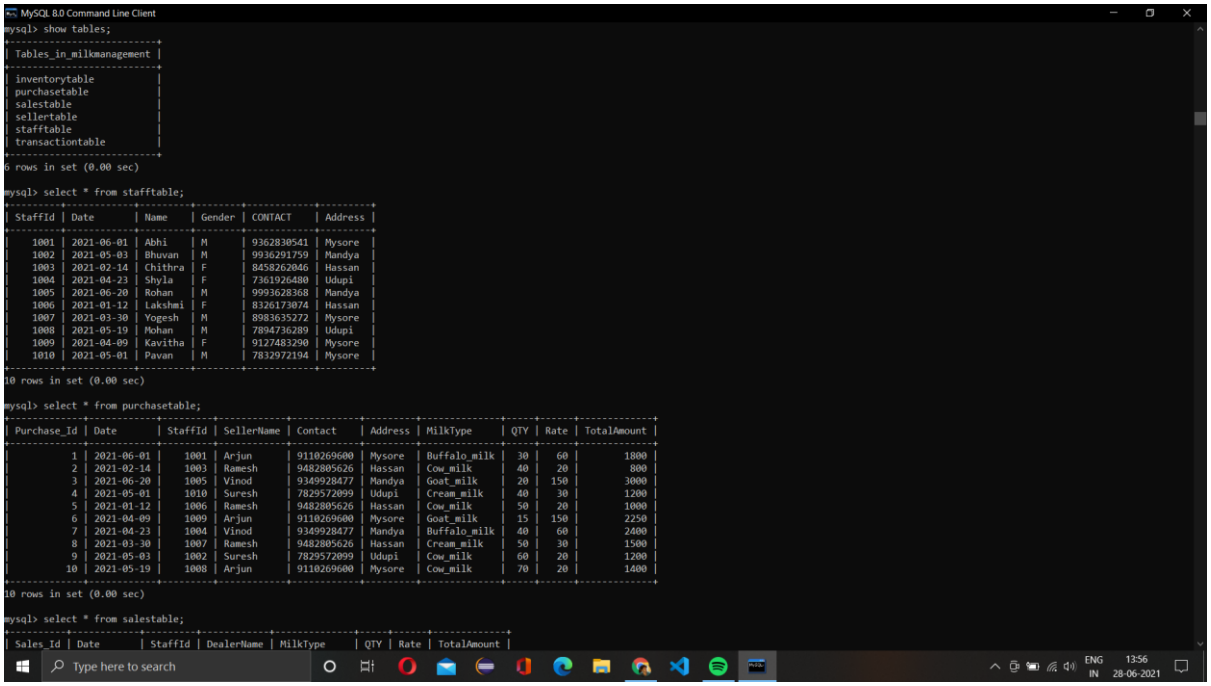
This Database project system gives the user the information about the purchase and sale of milk by maintaining records in the database, it also gives user an easy way to analyze the quantity of milk sold/remaining, regularity of dealer with dairy and many things related to Dairy Management.

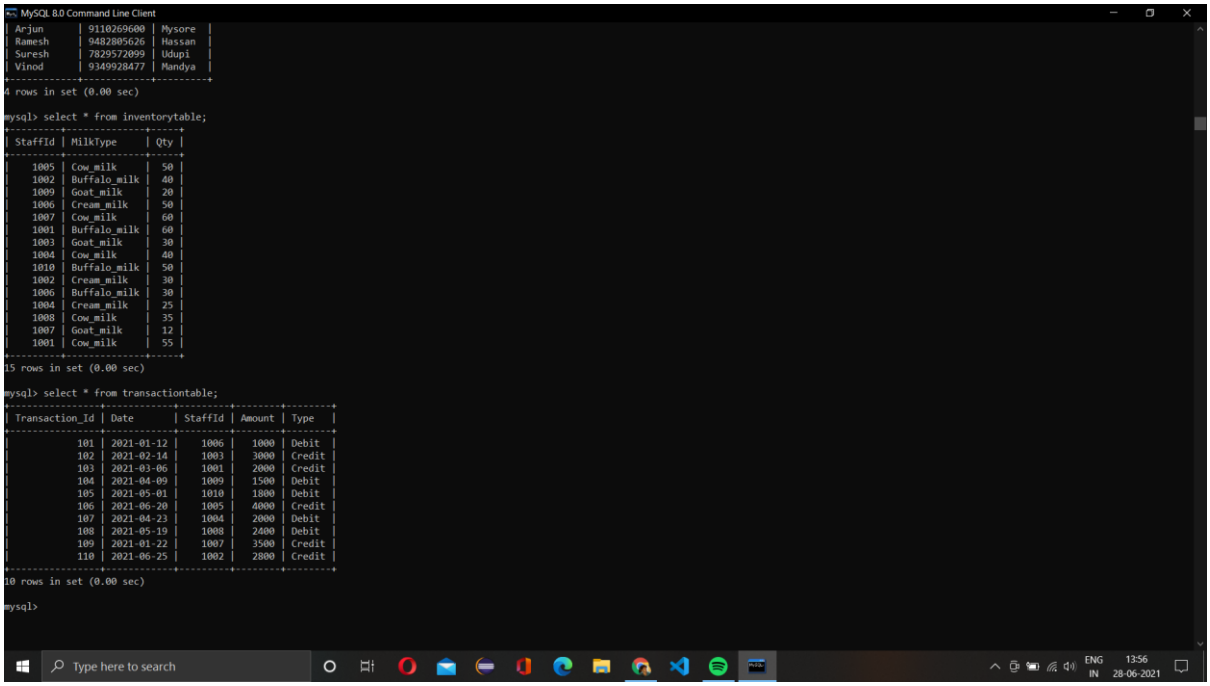
FUTURE ENHANCEMENTS

For the better Enhancement of this database system, we can implement a GUI and adding of various types of other products of milk so that it increases the information in the database system. Also, it will be even more helpful for the user to select even more DAIRY PRODUCTS and abstract their information. We can add even more tables and columns to make the information of the dairy more briefer.

SCREENSHOTS






MySQL 8.0 Command Line Client
Arjun	9110269600	Mysore
Ramesh	9482805626	Hassan
Suresh	7829572099	Udupi
Vinod	9349928477	Mandya
4 rows in set (0.00 sec)
mysql> select * from inventorytable;
StaffId	MilkType	Qty
1005	Cow_milk	50
1002	Buffalo_milk	40
1009	Goat_milk	20
1006	Cream_milk	50
1007	Cow_milk	60
1001	Buffalo_milk	60
1003	Goat_milk	30
1004	Cow_milk	40
1010	Buffalo_milk	50
1002	Cream_milk	30
1006	Buffalo_milk	30
1004	Cream_milk	25
1008	Cow_milk	35
1007	Goat_milk	12
1001	Cow_milk	55
15 rows in set (0.00 sec)
mysql> select * from transactiontable;
Transaction_Id	Date	StaffId	Amount	Type
101	2021-01-12	1006	1000	Debit
102	2021-02-14	1003	3000	Credit
103	2021-03-06	1001	2000	Credit
104	2021-04-09	1009	1500	Debit
105	2021-05-01	1010	1800	Debit
106	2021-06-20	1005	4000	Credit
107	2021-04-23	1004	2000	Debit
108	2021-05-19	1008	2400	Debit
109	2021-01-22	1007	3500	Credit
110	2021-06-25	1002	2800	Credit
10 rows in set (0.00 sec)
mysql>
Type here to search
ENG
IN
13:56
28-06-2021

********THE END*******