**MILK MANAGEMENT SYSTEM**

**MOON DAIRY**

**The Milk Express**

**COURSE : BCA SESSION : 2020-23**

**Submitted By: - Submitted To: -**

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**DECLARATION**

We hereby declare that the project entitled “MOON DAIRY” **Milk Management System** which is being submitted as project in BCA 3rd Year to Arcade Business College, Patna is an authentic record of our genuine work done under the guidance and motivation of Anupam Singh (HOD of BCA Department) Arcade Business College, Patna.

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**INTRODUCTION**



The Jitpur Karaitar Milk Collection Union Ltd. is registered at “ Deshratna Dr. Rajendra Prasad Dugh Utpad Sahkari Sangh Limited ” (DRMU) popularly known as “Barauni Dairy”.

It is the largest milk union in the northern part of Bihar. It is one of the 10 PDC’s (Post Dated Check) Registered in Barauni Dairy. PDC is given by issuer to a recipient as a form of payment ahead of time. The Jitpur Karaitar Milk Union collects milk from the farmer and bringing them under one umbrella for getting remunerative price for the milk produced in the village. The collection centre is also focused on supporting its member farmer in their farming activity with the needed inputs , technical and advisory services and in the processing and marketing of their surplus milk. It is also selling milk and its product to the local villages from the collection centre.

This collection centre was setup through a camping and with the support of Dairy Department 17 years ago. The board is democratically elected and running in profit. The centre is collecting about 300 liters per day and after collecting the local needs during the morning and evening hours send the milk to the barauni dairy through Barauni dairy transport. Sometimes the milk becomes sour due to the hot climate or delay in transport to reach at the cooling centre.



This is a huge drain to the collection centre. If the milk becomes sour then rate of the milk becomes half(1/2).

Barauni Dairy also provides some milk products like Ghee, Paneer, some animal feed supplements and some seeds for farmers which is beneficial for animals and increase the milk production. Dairy also provides VET. Doctor for checking the health of animal.

WORKING BEHAVIOUR :

Collection centre collects milk from farmer and calculates the FAT of the milk. According to the FAT price of milk is calculated.

After collecting milk , some local customer buy milk from the centre and rest of the milk is sent to main centre. In every ten days company calculate the amount of the milk according to FAT and deposit the money in the bank account of the collection centre. Collection centre also calculate the amount of farmer according to the FAT in ten days. If the farmer purchase some medicine or some product through the collection centre then at the time of calculation , collection centre reduces the amount the product purchased by the farmer and rest of the amount is given to the farmer.

**Limitation Of The Existing System**

In the existing system heavy work load for the owner but in the case of Proposed System, the user can also operate this application easily and reduce the work load of the owner. Existing system consumes more time and high man power. Existing system is costly due to paper work system. In the system owner can easily handle or regulate behaviour of the staff and secure the management.

* Huge amount of paper work.
* Need manual calculations.
* Time consuming.
* More man power.
* High storage capacity.
* Expensive.

To avoid all these limitations and make the working more accurately the system needs to be computerized in a better way.

**Objective of The Project**

**1.Maintain the purchase of milk: -**

To manage the purchase of the milk through the farmer and product from the company. It also helps to maintain and manipulate the data through it. it shows all purchases of Centre.

**2. Maintain the sales of centre: -**

This project helps us to manage the sales of the product and milk to locals and farmers. Through oracle we can manage all type of sales in Centre.

**3. Better security: -**

The security is important attribute of any software System. This security measures are by authorizing the People which accomplished by three level of Authorization. First at user level second at data level and third at administrative level.

**4. To maintain the expenses of the centre: -**

This project helps us to also show all the expenses of the Centre through oracle help to manage and view all the expenses.

**5. Greater accuracy and consistency: -**

Visual basic makes it easy to produce Graphical User Interface (GUI) with the use of Rapid Application Development (RAD). This makes it recommended for GUI based applications and the consistency Improved exponentially by using oracle as a back.

**H/W AND S/W REQUIREMENTS**

**HARDWARE SPECIFICATION**

• **Main Processor :** Pentium Dual Core or above

• **RAM :** 2 GB

• **Display Type :** SVGA

• **Hard Disk :** 125 GB

• **Keyboard :** Any Keyboard

• **Mouse :** Any Mouse

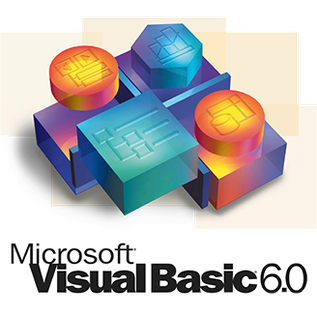
• **Printer :** Any printer

**SOFTWARE SPECIFICATION**

• **Operating System :** Windows 7 or latter

• **Front End :** VB 6.0

• **Back End :** Oracle 10 g

**INTRODUCTION TO VB 6.0**

Visual Basic, derived from the Basic language, is an object-based and event driven programming language from Microsoft. This language is relatively easy to learn. It enables you to create GUI (Graphical user interface) applications easily using the Rapid Application Development (RAD) technique. The one most interesting feature of this language is that it comes with a designer called Integrated Development Environment (IDE). The easy-to-use tools of the IDE enable you to easily create buttons, textbox, and other controls for your desktop application. Visual Basic 6.0 is a very powerful programming language. It enables GUI application development, provides access to databases and enables the creation of ActiveX controls. In addition, Visual Basic 6 is Event-driven because we need to write code in order to perform some tasks in response to certain events. The events usually comprises but not limited to the user's inputs. Some of the events are load, click, double click, drag and drop, pressing the keys and more. We will learn more about events in later lessons. Therefore, a VB6 Program is made up of many subprograms, each has its own program code, and each can be executed independently and at the same time each can be linked together in one way or another.

**The Integrated Development Environment**

The main workspace appears where you will develop your application with the tools in IDE (Integrated Development Environment). It is very important to know the names of all the elements of this development environment. The tools available here makes it very easy for you to develop an application. The VB6 IDE provides you many tools in one place. You can add a control on the form of your choice, set a property of an object from the Properties Window on the right hand side, set the form layout and many more things that you can use alongside your coding. You can even fill the Tool box with lots of additional controls.

**The Menu Bar**

The Menu Bar contains all the menus such as File, Edit, View, Tools and so on.

**The Tool Bar**

The Tool Bar contains all the tools such as Open, Save, Copy, Cut, Start and so on.

**An Overview of VB6 Controls**

Before getting into the actual programming work, you need to have an overview of the VB controls. In this lesson, a very short description of each of the controls has been given.

**Label :** The label control is used to display text. It is also used to label other controls. The end user cannot edit

the label text.

**Text Box:** The Text Box control contains characters. End-users can edit the characters contained in the Text Box.

**Command Button:** The Command Button control is simply a button that we see in our daily-use software. When the end-user clicks the Command Button, the program behaves according to the code assigned in the Common Button.

**Option Button:** This control enables the end-user to select one among several options. Only one option button among others in a group can be on at the same time. You can name an option using the Caption property.

**Check Box:** The Check Box control is used to make a yes/no or true-false selection. You can check more than one Check Box at the same time that let you make multiple choices. You can label this control using the Caption property.

**V scroll Bar & H scroll Bar:** V scroll Bar and H scroll Bar controls let you create Vertical scroll bar and Horizontal scroll bar respectively.

**Frame:** The Frame control is used as a container of other controls. This is also used to group different controls especially in Option Button controls when you wish to select more than one option. The Caption property associated with it is useful to label the frame.

**List Box & Combo Box:** The List Box control contains a number of items. The user can select one or more items from the list. The combo Box control has the feature of List Box and Text Box. This control does not support multiple selections.

**Timer :** The Timer control is not visible on the form when you run the program. It is used to execute lines of code repeatedly at specific intervals.

**The Data Control :** The Data control is used for database programming.

**Common Properties in VB6**

In this lesson, you'll learn about the common properties used in VB6.

**Back Color and Fore Color:** The Back Color property sets the background color of an object while the Fore Color property changes the foreground color used to display text.

You can set these properties either from Properties Window or you may wish to set in run-time.

**Example:** When you click on command1 button, the code in the Click event procedure is executed. Private Sub c m d Change color Click ()

Label1.BackColor = v b Red, Label1.ForeColor = v b Blue End Sub

**Font:** You can set the font property from the Properties Window. See the below example to set property in run time.

**Example:** Private Sub c m d Change Font \_Click() Text1.FontSize = 16

Text1.FontBold = True Text1.FontItalic = True Text1.Font = "Tahoma" End Sub

**Caption:** It sets the text displayed in the object's title bar or on the object. Example: Private Sub c m d Set Title\_ Click() Form1.Caption = "New Program" Label1.Caption = "Hello" Frame1.Caption = "New frame" End Sub

'Caption' property of form sets the form's title text. The text to be displayed on label is set.

**Text:** It sets the text in a Text Box. Example: Text1.Text = "New program"

Here the text string is assigned to Text1.Text.

**The Left, Top, Width and Height properties**

1. The Left Property sets the distance between the internal left edge of an object and the left edge of its container.

**2.** The Top Property sets the distance between the internal top edge of an object and the top edge of its container.

**3.** The Width Property sets the width of an object.

**4.** The Height Property sets the height of an object.

Example:

Private Sub c m d Change \_Click()

Form1.Left = 12000

Form1.Top = 7000

Form1.Height = 10000

Form1.Width = 12000 End Sub

**Tab Index and Tab Stop**

The Tab Stop property indicates whether the user can use the TAB key to give the focus to an object. You can give focus to the objects pressing the TAB key in the daily use software applications. The Tab Index property sets the tab order of an object.

**INTRODUCTION TO ORACLE 10G**

**ORACLE :** Oracle database is a relational database management system (RDBMS) from Oracle Corporation. This article will explain a complete overview of the Oracle database, features, history, and editions. Before discussing the oracle, we will first need to know about the database.

It is one of the oldest database management companies in the world. It has always focused on enterprise needs and kept up with the newest technological developments. As a result, its products are constantly updated with new features. For example, the most recent Oracle database, 19C, is also available on Oracle Cloud. Oracle allows users to select from various database editions to meet their specific demands with a cost-effective solution.

**DATABASE :** A database refers to the **organized collection of structured data** stored electronically in a device. It allows us to access, manage, and find relevant information frequently. The flat file structure was extensively used to store data before the database system was invented. The relational database approach becomes popular in comparison to the flat file model because it eliminates redundant data.

**EDITIONS OF ORACLE DATABASE :** Oracle database is compatible with a wide range of platforms such as Windows, UNIX, Linux, and macOS. It supports several operating systems like IBM AIX, HP-UX, Linux, Microsoft Windows Server, Solaris, SunOS, macOS, etc. In the late **1990s**, Oracle began supporting open platforms like GNU/Linux.

**The following is a list of Oracle database editions in order of priority:**

* **Enterprise Edition:** It is the most robust and secure edition. It offers all features, including superior performance and security.
* **Standard Edition:** It provides the base functionality for users that do not require Enterprise Edition's robust package.
* **Express Edition (XE):** It is the lightweight, free and limited Windows, and Linux edition.
* **Oracle Lite:** It is designed for mobile devices.
* **Personal Edition:** It's comparable to the Enterprise Edition but without the Oracle Real Application Clusters feature.
* **ORACLE 10 G :** Oracle Database 10g is the first database designed for enterprise grid computing, the most flexible and cost effective way to manage information and applications. Enterprise grid computing creates large pools of industry-standard, modular storage and servers .

**MODULE DESCRIPTION**

1. Admin Module

This module contains all the information related to admin department such as login, creating new user, forgot password etc.

This module contain following tables:-

**Table : Login**

Fields : (user\_id, user\_nm, phone\_no, password)

**Table : Collection\_center**

Fields : (Cen\_id, Cen\_name, Cen\_addr, Phone\_no, Reg\_no, Reg\_date)

**Table : Dairy**

Fields : (Did, Dname, Addr, Phone\_no)

**Table : Farmer**

Fields : (Fid, Fnm, Phone\_no, Addr)

There are some sub functions we used in this module as:-

Login

In login page admin or any staff who work in this organization can access this software by their user id and password.

New User

This page can only be access by admin of the organization.

Through this page admin can create new user id for their staff.

Forgot Password

This function can be used by admin or any staff who lost their password. By this function they can easily forgot their password with the help of with their user id and phone number.

1. Staff Module

In this module we contain information of all staff working in this organization.

This module is managed by admin. Whenever any new staff join in this organization then details are stored in this module by admin.

This module contain following tables:-

**Table : Staff\_detalis**

Fields : (Sid, S\_name, Phone\_no, Fnm, DOB, Addr, Qualification, Salary, Doj, Bank\_nm, Acc\_no, A\_H\_name, IFSC, Aadhar, Gender)

**Table : Milk\_Coll**

Fields : **(**Fid**,** Coll\_amt**,** Date**,** Net\_Fat**,** Net\_amt**,** Tot\_coll**,** Tot\_Fat**,** Tot\_Amt)

There are some sub functions that we use in this module:-

Add

In this function the details like personal details, bank details etc of new joined staff are stored as per designed format. For this we provided some operations like add new, save and clear.

Update

Through this function admin can update the details of staff like change phone number, address etc. Updating is performed by searching staff id.

Delete

Through this function admin can remove all the details of staff that left this organization.

Deletion is also performed by searching staff id.

Search

Through this function admin can fetch the details of staff working in the organization. Searching can be done by using staff id or by staff name. After fetching the details admin can update or remove the details of staff.

1. Product Module

Product is one of the major part of this organization. As this organization is product based so we can say that products are the back bone of this organization. Through this module either admin or staff can manage products.

Various functions such as entry the details of new product, updation in product record, deletion, searching, managing stock can be done through the help of this module.

This module contain following tables:-

**Table : Product**

Fields : (Pr\_id, Pr\_name, Pr\_comp, Weight, Measurement, MFD, Expire, Price)

**Table : Stock**

Fields : (Serial\_no, Pr\_id, Capacity, Available, Limit)

Sub functions provided in this module are:-

Entry

In this function insertion of new product details can be done such as generating product id, entry of product name, company of product, manufacture date, expiry date etc.

For this add new, save and clear command are also given.

Search

Through searching function we can fetch the details of products. With the help of search one can also update or remove product details.

Searching can be done by product id which is generated in product entry or by product name.

Update

This function can be used when there is need of change some details of product.

For updating we have search the product by product id or by product name. After the details of product are fetched then we can update any of its details, for this update and clear command is given in this function.

Stock

Stock is one of the major function in this module, as this function is responsible for storage of each product in the organization. Through this function we can see the maximum storage space in the organization, total available products in the storage, quantity of each product.

There is also a minimum limit set for each product. If any product goes down the minimum limit then order is placed for purchasing of that product.

1. Customer Module

The Customer module is a management system which allows the users to store, manage, and exchange customer information for efficient and effective management. It is a broadly recognized, widely-implemented strategy for managing and nurturing a company's interactions with customers, clients and sales prospects.

This module contain following tables:-

**Table : Customer**

Fields : (Cust\_id, Cust\_name, Phone\_no, Addr)

Customer Management is done by using following functions:-

Add

In this we add New Customer Account which provides full information the customer like Customer Name, Address, Type, Phone no, etc. We also allot a unique customer ID to each customer for future use.

Update

If any information of customer has been changed or incorrect then updating can be performed. We can change any details by searching their id.

Search

Here searching is performed either by customer id or phone number. When we enter customer id or phone number then full details of that customer is displayed.

Delete

This function can be used when we have large number of customer and want to remove details of those customers who have visited few times to our store.

1. Transaction Module

This module deals all the function related to billing of product like sell bill or purchase bill. In this module we can generate sell bill for customers. Manage products which are returned by any customer. Store purchase bill given by distributor.

This module also deals with dues of customer.

Through this module we can also see total profit gained in a day or in a month by seeing total sales of product.

This module contain following tables:-

**Table : PorderDetail**

Fields : (Porder\_id, Date , Bill\_amt, Advance, Dues, Ttax)

**Table : Porder\_Product**

**Fields : (**Porder\_id, Pr\_id, Qty, Amt, Discount, Tax)

**Table : Invoice\_detail**

Fields :(Invoice\_no, Invoice\_date, Porder\_id, TBill\_amt, Paid\_amt,Dues)

**Table : Purchase\_bill**

Fields : (Invoice\_no, Porder\_id, Did, Pr\_id, Qty, Total\_amt, Paid, Dues)

**Table : SorderDetail**

Fields : (Sorder\_id, Date, Cust\_id, Advance, Dues, Ttax )

**Table : Sorder\_Product**

**Fields : (**Sorder\_id, Pr\_id, Qty, Amt, Discount, Tax)

**Table : Sbill\_detail**

Fields : **(**Sbill\_no, Date, Sorder\_id, TBill\_amt, Paid\_amt, Dues)

**Table : Sell\_bill**

Fields:(Bill\_no,Cen\_id,Cust\_id,Sorder\_id,Pr\_id,Qty,Discount,Total,Paid,Dues)

**Table : Dues**

Fields : (Cust\_id, Bill\_no, Dues, Tot\_due)

**Table : Return\_note**

Fields : (RN\_no, Cust\_id, Bill\_no, Date, Pr\_id, Qty, Reason)

The main functions of this module are:-

Sale Bill

In this option we create a bill for customers which contain a unique bill number. Our bill includes information like product purchased by customer, total quantity of product, price of each product, total amount, discount if given, net payable amount, paid and dues left.

Purchase Bill

In this option we insert all bill details of product which we purchase from company which contain a. Our bill contains information like unique bill number product purchased by us, total quantity of product, price of each product, total payable amount, paid amount and dues left.

Dues

This function is used for storing the details of customer who which not paid their bill completely. This function record total dues amount of customer. If any customer pay their bill then their dues amount is deducted from total dues amount.

Through this function we can also see the amount of debt that we have to pay the company.

Return

This option is invoked when any customer return some products due to some reason. This function contain customer id, product id, quantity of product returned unique return note number and reason for which product is returned.

1. Report Module

An essential part of business is the ability to create reports. This module looks at how to structure a report, from the executive summary through to conclusions and recommendations. A report doesn't just rely on the quality of its contents and how it’s structured, but also the style in which it is created.

At the end of day, month, or year we only see our final report of selling and purchasing. Through this module we can easily see our net profit, net loss, net purchasing or selling of products.

The major functions of this module are:-

Search

Through this function we can search each and every report. We have to select beginning date and end date or starting month and end month with type of report we want to fetch, such as sell, purchase, customer etc.

Purchase Report

In this report we can see our monthly or annually purchase report. This can be

done by searching, for this we have to select method such as search ‘by date’ , search ‘by month’ and then choose start date or month from DTpicker and end date or month from DTpicker and then search. We will get report according to our desired format.

Sales report

In this report we can see our daily, monthly or annually sales report. This can be done by searching, for this we have to select method such as search ‘by date’, search ‘by month’ and then choose start date or month from DTpicker and end date or month from DTpicker and then search. We will get report according to our desired format.

Customer report

In this report we can see our daily, monthly customer visiting our store. This can be done by searching, for this we have to select method such as search ‘by date’, search ‘by month’ and then choose start date or month from DTpicker and end date or month from DTpicker and then search. We will get report according to our desired format.

Staff Report

In this report we can see our all staff report which working in our store. This can be done by searching, for this we have to enter staff id or staff name then search. We will get report according to our desired format. From this report we can find total working days of staff, their salary, their monthly attendance etc.

**TABLE DESCRIPTION**

1. **Table : Login**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| User\_id | Varchar2 | 20 | Primary key | User id of admin/Staff |
| User\_nm | Varchar2 | 20 | Not null | User name of admin/Staff |
| Phone\_no | Number | 10 | Unique not null | Phone number |
| Password | Varchar2 | 20 | Not null | Password |

1. **Table : Collection\_center**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Cen\_id | Varchar2 | 6 | Primary key | Collection center id |
| Cen\_name | Varchar2 | 15 | Not null | Center name |
| Cen\_addr | Varchar2 | 20 | Not null | Collection center address |
| Phone\_no | Number | 10 | Unique not null | Contact number of center |
| Reg\_no |  |  | Unique not null | Center registration number |
| Reg\_date | Date |  | Not null | Date of registration |

1. **Table : Dairy**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Did | Varchar2 | 6 | Primary key | Dairy id |
| Dname | Varchar2 | 15 | Not null | Dairy name |
| Addr | Varchar2 | 20 | Not null | Address of dairy |
| Phone\_no | Number | 10 | Unique not null | Contact number of dairy |

1. **Table : Staff**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Sid | Varchar2 | 6 | Primary key | Staff id |
| S\_name | Varchar2 | 20 | Not null | Staff name |
| Phone\_no | Number | 10 | Unique not null | Phone number of Staff |
| Fnm | Varchar2 | 20 | Not null | Father’s name of staff |
| DOB | Date |  | Not null | Date of birth |
| Addr | Varchar2 | 30 | Not null | Address of staff |
| Qualification | Varchar2 | 15 | Not null | Educational qualification of staff |
| Salary | Number | (9,2) | Not null | Monthly salary |
| Doj | Date |  | Not null | Date of joining |
| Bank\_nm | Varchar2 | 10 | Not null | Bank name |
| Acc\_no | Number | 16 | Unique not null | Account number |
| A\_H\_name | Varchar2 | 15 | Not null | Account holder name |
| IFSC | Number | 11 | Not null | IFSC code of bank |
| Aadhar | Number | 12 | Unique not null | Aadhar number |
| Gender | Varchar2 | 6 | Not null | Gender |

1. **Table : Farmer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Fid | Varchar2 | 6 | Primary key | Farmer’s id |
| Fnm | Varchar2 | 15 | Not null | Farmer name |
| Phone\_no | Number | 10 | Unique not null | Phone number of farmer |
| Addr | Varchar2 | 20 | Not null | Address |
| Pin | Number | 6 | Not null | Pin number |

1. **Table : Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Pr\_id | Varchar2 | 6 | Primary key | Product id |
| Pr\_name | Varchar2 | 15 | Not null | Product name |
| Pr\_comp | Varchar2 | 15 | Not null | Product company |
| Weight | Number | (7,2) | Not null | Weight of product |
| Measurement | Varchar2 | 10 | Not null | Measurement unit of product |
| MFD | Date |  | Not null | Manufacture date |
| Expire | Date |  | Not null | Expire date |
| Price | Number | (9,2) | Not null | Cost price of product |

1. **Table : Stock**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Pr\_id | Varchar2 | 6 | Foreign key | Product id |
| Capacity | Number | 4 | Not null | Total capacity of stock |
| Available | Number | 4 | Not null | Total product available in stock |
| Limit | Number | 2 | Not null | Minimum limit of product in stock |
| Serial\_no | Varchar2 | 6 | Primary key | Serial number of stored product |

1. **Table : Customer**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Cust\_id | Varchar2 | 6 | Primary key | Customer id |
| Cust\_name | Varchar2 | 20 | Not null | Customer name |
| Phone\_no | Number | 10 | Unique not null | Phone number |
| Addr | Varchar2 | 20 | Not null | Address of customer |

1. **Table : PorderDetail**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Porder\_id | Varchar2 | 6 | Primary key | Purchase order id |
| Date | Date |  | Not null | Date of order |
| Did | Varchar2 | 6 | Foreign key | Dairy id |
| Bill\_amt | Number | (9,2) | Not null | Total bill of order products |
| Advance | Number | (9,2) | Not null | Advance paid |
| Dues | Number | (9,2) | Not null | Dues left |
| Ttax | Number | (9,2) | Not null | Total Tax on products |

1. **Table : Porder\_Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Porder\_id | Varchar2 | 6 | Foreign key | Purchase order id |
| Pr\_id | Varchar2 | 6 | Foreign key | Product id |
| Qty | Number | 4 | Not null | Quantity of product |
| Amt | Number | (9,2) | Not null | bill of order products |
| Discount | Number | (9,2) | Not null | Discount on product |
| Tax | Number | (9,2) | Not null | Tax on products |

1. **Table : Invoice\_detail**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Invoice\_no | Varchar2 | 6 | Primary key | Invoice number |
| Invoice\_date | Date |  | Not null | Date |
| Porder\_id | Varchar2 | 6 | Foreign key | Purchase order id |
| TBill\_amt | Number | (9,2) | Not null | Total bill of products |
| Paid\_amt | Number | (9,2) | Not null | Bill paid |
| Dues | Number | (9,2) | Not null | Dues left |

1. **Table : Purchase\_bill**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Invoice\_no | Varchar2 | 6 | Foreign key | Invoice number |
| Porder\_id | Varchar2 | 6 | Foreign key | Purchase order id |
| Did | Varchar2 | 6 | Foreign key | Dairy id |
| Pr\_id | Varchar2 | 6 | Foreign key | Product id |
| Qty | Number | 4 | Not null | Quantity of product |
| Total\_amt | Number | (9,2) | Not null | Total amount of product |
| Paid | Number | (9,2) | Not null | Total paid amount |
| Dues | Number | (9,2) | Null | Total dues left |

1. **Table : Sorder Detail**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Sorder\_id | Varchar2 | 6 | Primary key | Sale order id |
| Cust\_id | Varchar2 | 6 | Foreign key | Customer id |
| Date | Date |  | Not null | Date of order |
| Advance | Number | (9,2) | Not null | Advance paid |
| Dues | Number | (9,2) | Not null | Dues left |
| Ttax | Number | (9,2) | Not null | Total Tax |

1. **Table : Sorder\_Product**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Sorder\_id | Varchar2 | 6 | Foreign key | Sale order id |
| Pr\_id | Varchar2 | 6 | Foreign key | Product id |
| Qty | Number | 4 | Not null | Quantity of product |
| Amt | Number | (9,2) | Not null | bill of order products |
| Discount | Number | (9,2) | Not null | Discount on product |
| Tax | Number | (9,2) | Not null | Tax on products |

1. **Table : Sbill\_detail**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Sbill\_no | Varchar2 | 6 | Primary key | Bill number |
| Date | Date |  | Not null | Date |
| Sorder\_id | Varchar2 | 6 | Foreign key | Purchase order id |
| TBill\_amt | Number | (9,2) | Not null | Total bill of products |
| Paid\_amt | Number | (9,2) | Not null | Bill paid |
| Dues | Number | (9,2) | Not null | Dues left |

1. **Table : Sell\_bill**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Sbill\_no | Varchar2 | 6 | Foreign key | Bill number |
| Cen\_id | Varchar2 | 6 | Foreign key | Collection center id |
| Cust\_id | Varchar2 | 6 | Foreign key | Customer id |
| Sorder\_id | Varchar2 | 6 | Foreign key | Sale order id |
| Pr\_id | Varchar2 | 6 | Foreign key | Product id |
| Qty | Number | 4 | Not null | Quantity of product |
| Discount | Number | 3 | Null | Discount given to the customer |
| Total | Number | (9,2) | Not null | Total billing amount of products |
| Paid | Number | (9,2) | Not null | Total paid amount |
| Dues | Number | (9,2) | Null | Total dues left |

1. **Table : Dues**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Cust\_id | Varchar2 | 6 | Foreign key | Customer id |
| Bill\_no | Varchar2 | 6 | Foreign key | Bill number |
| Dues | Number | (9,2) | Not null | Dues according to date |
| Tot\_due | Number | (9,2) | Not null | Total dues |

1. **Table : Return\_note**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Cust\_id | Varchar2 | 6 | Foreign key | Customer id |
| Bill\_no | Varchar2 | 6 | Foreign key | Bill number |
| Date | Date |  | Not null | Date |
| RN\_no | Varchar2 | 6 | Primary key | Note number |
| Pr\_id | Varchar2 | 6 | Foreign key | Product id |
| Qty | Number | 4 | Not null | Quantity of returning |
| Reason | Varchar2 | 30 | Not null | Reason of returning |

1. **Table : Vendor**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Vend\_id | Varchar2 | 6 | Primary key | Vendor id |
| Vend\_nm | Varchar2 | 20 | Not null | Vendor name |
| Phone\_no | Number | 10 | Unique not null | Phone number |
| Addr | Varchar2 | 20 | Not null | Address of Vendor |

1. **Table : Milk\_Coll**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Size** | **Constraint** | **Description** |
| Fid | Varchar2 | 6 | Foreign key | Farmer id |
| Coll\_amt | Number | (9,2) | Not null | Milk amount collected by farmer |
| Date | Date |  | Not null | Date of collection |
| Net\_Fat | Number | (9,2) | Not null | Net fat in milk |
| Net\_amt | Number | (9,2) | Not null | Net amount per fat |
| Tot\_coll | Number | (9,2) | Not null | Total collection |
| Tot\_Fat | Number | (9,2) | Not null | Total fat in milk |
| Tot\_Amt | Number | (9,2) | Not null | Total amount per fat |

**PROJECT PLANNING**

|  |  |  |
| --- | --- | --- |
| **PHASES** | **MEMBERS** | **TOTAL DAYS** |
| 1. ANALYSIS  * DATA GATHERING * FEASIBILITY STUDY * COSTBENEFIT ANALYSIS * PROJECT PROPOSAL | PRASHANT KUMAR  MRITUNJAY KUMAR  KESHAV KUMAR  MANISH KUMAR | 26 |
| 1. DESIGN | 6 |
| 1. CODING | 16 |
| 1. TESTING | 13 |
| 1. IMPLEMENTATION | 3 |
| 1. DOCUMENTATION | 64 |

TOTAL DAYS : 64 DAYS

**Future Scope of the Project**

This system is designed for looking near future of organization to manage the requirement in Milk collection Centre, thus further this system is implemented to manage the collection Centre.

This project is developed by keeping in mind the proper rules and regulation with standards of the structure of data to manage the collection Centre in Bihar, thus system is implemented in collection Centre without any big change in the system either in structure, numbers of table or increasing attributes in the tables.

Thus, system fulfills most future requirements with lesser amount of change, either to manage increased volume of data, load time, manual power to maintain the increase processing etc. This system also runs in any environment or any newer architecture or software (o/s).

The system developed with limited domain but the newer criteria are added without any big changes. The system cooperates fully to increase the domain. In future this application may be expanded for the web enabled information or work on web enabled network, code with little modification worked on the designer according the requirements.

There are farmer bonus feature and farmer insurance feature not included in this project. So, we will be mentioning those feature that can be added in our project in future.