Dairy Management System

1. Data Dictionary

- ### Breed Table

Field Name	Data Type	Field Length	Constraint	Description
BrId	INT	---	Primary Key	Breed Id, Auto generated.
HeatDate	DATE	---	Not Null	Date when the cow is in heat.
BreedDate	DATE	---	Not Null	Date of breeding.
PregDate	DATE	---	Not Null	Date of pregnancy.
ExpDateCalve	DATE	---	Not Null	Expected calving date
DateCalved	DATE	---	Not Null	Actual calving date.
CowAge	INT	---	Not Null	Age of the cow.
Remarks	VARCHAR	100	Not Null	Additional comments or remarks.
CowId	INT	---	Foreign Key	Cow Id, Auto generated
CowName	VARCHAR	50	Not Null	Name of the cow.

- ### Cow Table

Field Name	Data Type	Field Length	Constraint	Description
CowId	INT	---	Primary Key	Cow Id, Auto generated
CowName	VARCHAR	50	Not Null	Name of the cow.
EarTag	VARCHAR	50	Not Null	Ear tag identifier.
Color	VARCHAR	50	Not Null	Color of the cow.
breed	VARCHAR	50	Not Null	Breed of the cow.
Age	INT	---	Not Null	Age of the cow.
WeightAtBirth	INT	---	Not Null	Weight of the cow at birth.
pasture	VARCHAR	50	Not Null	Pasture where the cow is located.

- ### Employee Table

Field Name	Data Type	Field Length	Constraint	Description
EmpId	INT	---	Primary Key	Employee Id, Auto generated
EmpName	VARCHAR	50	Not Null	Name of the employee.
EmpDOF	DATE	---	Not Null	Date of birth of the employee.
Gender	VARCHAR	50	Not Null	Gender of the employee.
Phone	VARCHAR	50	Not Null	Phone number of the employee.
Address	VARCHAR	50	Not Null	Address of the employee.

- **Expenditure Table**

Field Name	Data Type	Field Length	Constraint	Description
ExpId	INT	---	Primary Key	Expenditure Id, Auto generated
ExpDate	DATE	---	Not Null	Date of the expenditure
ExpPurpose	VARCHAR	50	Not Null	Purpose or description of the expenditure.
ExpAmount	INT	---	Not Null	Amount spent.
EmpId	INT	---	Foreign Key	Employee Id, Auto generated

- **Health Table**

Field Name	Data Type	Field Length	Constraint	Description
RebId	INT	---	Primary Key	Report Id, Auto Generated
CowId	INT	---	Foreign Key	Cow Id, Auto generated
CowName	VARCHAR	50	Not Null	Name of the cow.
RepDate	DATE	---	Not Null	Date of the health report
Event	VARCHAR	50	Not Null	Health event.
Diagnosis	VARCHAR	50	Not Null	Diagnosis of the health condition.
Treatment	VARCHAR	50	Not Null	Treatment administered.
Cost	INT	---	Not Null	Cost of the health event.
Vetname	VARCHAR	50	Not Null	Veterinarian's name.

- **Income Table**

Field Name	Data Type	Field Length	Constraint	Description
IncId	INT	---	Primary Key	Income Id, Auto Generated
IncDate	DATE	---	Not Null	Date of the income.
IncPurpose	VARCHAR	50	Not Null	Purpose or description of the income.
IncAmt	INT	---	Not Null	Amount of income.
EmpId	INT	---	Foreign Key	Employee Id, Auto generated

- **Milk Sales Table**

Field Name	Data Type	Field Length	Constraint	Description
SId	INT	---	Primary Key	Sale Id, Auto Generated
date	DATE	---	Not Null	Date of the milk sale.
Uprice	INT	---	Not Null	Unit price of milk.
ClientName	VARCHAR	50	Not Null	Name of the client.
ClientPhone	VARCHAR	50	Not Null	Phone number of the client.
EmpId	INT	---	Foreign Key	Employee Id, Auto generated
Quantity	INT	---	Not Null	Quantity of milk sold.
Amount	INT	---	Not Null	Total amount received.

- **Milk Table**

Field Name	Data Type	Field Length	Constraint	Description
MId	INT	---	Primary Key	Milk Id, Auto Generated
CowId	INT	---	Foreign Key	Cow Id, Auto generated
CowName	VARCHAR	50	Not Null	Name of the cow.
AmMilk	INT	---	Not Null	Morning milk production.
NoonMilk	INT	---	Not Null	Noon milk production.
PmMilk	INT	---	Not Null	Evening milk production.
TotalMilk	INT	---	Not Null	Total milk production.
DateProd	DATE	---	Not Null	Date of milk production.