Om Sri Sai Ram

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**Collection Management System**

**Existing System:**

1. Bills are created based on orders received from the customers.
2. Stock will be dispatched as per the bills created.
3. At the EOD, total bills are entered into the Bill entry book which contains bill number, customer name, salesman to whom bill is assigned and the status of the bill.
4. Once the above details such as bill number, customer name, salesman, to whom bill assigned are entered and confirmed then the dispatched status bills are entered in the Ledger book for further transactions tracking details of bills.
5. Now on daily basis the collection details brought by the Salesman are received in form of a collection sheet and the same will be posted into the Ledger as per the bills.
6. If any of the bill payment is done completely then the bill is marked as Fully Paid and then bill is closed.

**New Proposed System:**

Automation of above existing system.

**Modules:**

1. Customer Module
2. Employee Module
3. Company Module
4. Bill Entry Module
5. Bill Payment Module

**Customer Module:**

1. Add Customer
2. Update Customer
3. Enable/Disable Customer

**Staff Module:**

1. Add Employee
2. Update Employee
3. Enable/Disable Employee
4. Add Beat
5. Update Beat
6. Enable/Disable Beat

**Company Module:**

1. Add Company
2. Update Company
3. Enable/Disable Company

**Bill Entry Module:**

1. Add Bills
2. Update Bills
3. Verify Bills
4. Check Bills(Salesman/Status/Beat)
5. Assign Bills

**Bill Payment Module:**

1. Collection Entry
2. Check Bills(Customer/Status/Salesman/Date/Bill)

**Database Design**

**Customer Module**

|  |  |  |
| --- | --- | --- |
| **Table** | **CUSTOMER\_MASTER** | |
| **Column Name** | **Data Type** | **Comments** |
| ID | INT | Primary Key (Unique Identification of the customer) |
| NAME | VARCHAR(100) | Customer Name |
| OUTLET\_NAME | VARCHAR(100) | Shop/Outlet Name |
| CATEGORYID | INT | Foreign Key (Table: CUSTOMERCATEGORY) |
| TYPEID | INT | Foreign Key (Table: CUSTOMERTYPE) |
| BEATID | INT | Foreign Key(Table: CUSTOMERBEAT) |
| ADDRESS1 | VARCHAR(80) | Address Line 1 |
| ADDRESS2 | VARCHAR(80) | Address Line 2 |
| LANDLINE | VARCHAR(15) | LandLine Number |
| MOBILE | VARCHAR(10) | Mobile Number |
| EMAIL\_ADDRESS | VARCHAR(80) | Email ID |
| OTHER\_DETAILS | VARCHAR(80) | Any other details of the customer |
| CITYID | INT | City in which Outlet exist  Foreign Key(Table: CUSTOMERCITY) |
| STATUSID | INT | Status of the Customer  Foreign Key (Table: CUSTOMERSTATUS) |
| UPDATED\_ON | DATE | Customer details updated date |

|  |  |  |
| --- | --- | --- |
| **Table** | **CUSTOMERCATEGORY** | |
| **Column Name** | **Data Type** | **Comments** |
| CATEGORYID | INT | Primary Key (Unique Identification of the category) |
| CATEGORYNAME | VARCHAR(MAX) | Name of the category(Eg: Medical, Kirana etc) |
| UPDATED\_ON | DATE | Customer Category updated date |

|  |  |  |
| --- | --- | --- |
| **Table** | **CUSTOMERTYPE** | |
| **Column Name** | **Data Type** | **Comments** |
| TYPEID | INT | Primary Key (Unique Identification of the customer type) |
| TYPENAME | VARCHAR(MAX) | Customer type description (Eg: Wholesale/Retail) |
| UPDATED\_ON | DATE | Customer Type updated date |

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| --- | --- | --- |
| **Table** | **CUSTOMERBEAT** | |
| **Column Name** | **Data Type** | **Comments** |
| BEATID | INT | Primary Key (Unique Identification of the beat) |
| BEATNAME | VARCHAR(MAX) | Beat Name (Eg: Tower circle, Rambazar etc) |
| OUTLET\_COUNT | INT | Approximate Outlet count |
| EMPLOYEEID | INT | Employee mapped to beat |
| UPDATED\_ON | DATE | Beat details updated date |

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| --- | --- | --- |
| **Table** | **CUSTOMERCITY** | |
| **Column Name** | **Data Type** | **Comments** |
| CITYID | INT | Primary Key (Unique Identification of the city) |
| CITYNAME | VARCHAR(MAX) | Name of the City |
| PINCODE | VARCHAR(6) | PinCode of the City |
| UPDATED\_ON | DATE | City Details updated on |

---------CUSTOMERCITYPINCODE Table is not required-----------------

|  |  |  |
| --- | --- | --- |
| **Table** | **CUSTOMERCITYPINCODE** | |
| **Column Name** | **Data Type** | **Comments** |
| PINCODEID | INT | Primary Key (Unique Identification of the Pincode) |
| PINCODE | VARCHAR(MAX) | Pincode of the City |

---------CUSTOMERCITYPINCODE Table is not required-----------------

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| **Table** | **STATUS\_MASTER** | |
| **Column Name** | **Data Type** | **Comments** |
| STATUSID | INT | Primary Key (Unique Identification of the city) |
| STATUSCODE | VARCHAR(MAX) | Status code indicates the status of the customer |

**Employee Module**

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| --- | --- | --- |
| **Table** | **EMPLOYEE\_MASTER** | |
| **Column Name** | **Data Type** | **Comments** |
| EMPLOYEEID | VARCHAR(10) | Primary Key (Unique Identification of the city) |
| FIRST\_NAME | VARCHAR(50) | First Name |
| LAST\_NAME | VARCHAR(50) | Last Name |
| START\_DATE | DATE | Employee Work Start Date |
| RELEASING\_DATE | DATE | Employee Work End Date |
| DESIGNATION\_ID | INT | Designation of the Employee |
| SALARY | INT | Salary of the Employee |
| STATUS\_ID | INT | Status of the Employee |
| CREATED\_ON | DATE | Employee records created on |
| UPDATED\_ON | DATE | Employee details updated on |

|  |  |  |
| --- | --- | --- |
| **Table** | **DESIGNATION\_MASTER** | |
| **Column Name** | **Data Type** | **Comments** |
| DESIGNATION\_ID | VARCHAR(MAX) | Primary Key (Unique Identification of the city) |
| DESIGNATION\_NAME | VARCHAR(MAX) | Employee Name |

**Company Module**

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| --- | --- | --- |
| **Table** | **Company** | |
| **Column Name** | **Data Type** | **Comments** |
| COMPANYID | VARCHAR2 | Primary Key (Unique Identification of the city) |
| COMPANY\_NAME | VARCHAR2 | Company Name |
| UPDATED\_ON | DATE | Company Details updated on |

**Bill Entry Module**

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| **Table** | **Billmaster** | |
| **Column Name** | **Data Type** | **Comments** |
| ID | Integer | Primary Key (Unique Identification of the city) |
| Bill\_No | Varchar | Bill Number |
| Outlet\_Name | Varchar | Outlet Name |
| Company\_ID | Integer | Which Company bill belongs to. |
| Dispatch\_Status | Integer | Bill Dispatch Status |
| Amount | Integer | Bill Amount |
| Counter\_Discount | Integer | Discount given at the time of Bill issued on the Bill |
| Transaction\_Discount | Integer | Discount issued at the time of Partial/Full Transaction done. |
| Paid | True/False | Bill Full Payment Status |
| Comments | Varchar2(max) | Any Comments about transaction |

**Bill Transactions Module**

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| --- | --- | --- |
| **Table** | **BillPayments** | |
| **Column Name** | **Data Type** | **Comments** |
| Transaction\_ID | Integer | Primary Key (Unique Identification of the city) |
| Bill\_No | Integer | Outlet Name |
| Amount\_Received | Integer | Amount Received for this transaction |
| Transaction\_Date | Date | Bill Payment(Partial/Complete) Date |
| SalesMan\_Id | Integer | Transaction Amount collected by SalesMan |
| Comments | Varchar2(max) | Any Comments about transaction |

**Customer Module:**

It contains two User Interfaces.

1. Search Customer: User Interfaces contains input field where user will provide full outlet name or part of outlet name, so all the outlets containing the provided outlet name are retrieved and populated.

When user clicks on the any outlet name it navigates to the Customer Update User Interface when user can update the Outlet details.

User can enable/disable the customer by clicking the InActive/Active button available for each outlet listed in the search page.

1. Add/Update Customer: User Interface contains input fields where user should fill all the details of the customers in the input fields to add new customer/update the existing customer.

**Employee Module:**

It contains three User Interfaces

1. Add/Update Employee: User Interfaces contains input fields to add/update the Employee. User provides details in the input fields to add/update the Employee
2. View Employee: User Interface list all the Employee and when user clicks on the Employee, details of the Employee will be displayed. By clicking then “Edit” button of the Employee details navigates to Employee Update Page and user can update Employee details.

Employee can be made Active/InActive by clicking on the InActive/Active button displayed.

1. Add/Update Beats: User Interface contains input fields to add/update the Beat details. In this Page User should be able to add Beat Name, assign/reassign the SalesMan to this beat, approximate count of outlets exists in the beat.
2. View the Beat History: User should be able to see the Beats history details.