**Data Dictionary**

1. **Inventory** 
   1. **Item**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Allow Null | Default Value | Remark |
| Id | Pk | Int |  |  |  |  |
| Name |  | Varchar | 500 |  |  |  |
| Code |  | Varchar | 50 | Y |  |  |
| Barcode |  | Varchar | 50 | y |  |  |
| Item\_type\_id | Fk | Int |  |  |  | It is fixed values (1=Inventory , 2=Service, 3=Non-Inventory ,4= Fixed Assets) |
| Category\_id | Fk | Int |  |  |  |  |
| Um\_id | Fk | Int |  |  |  |  |
| Price |  | Decimal | 18,6 |  | 0 |  |
| Re\_order |  | Decimal | 18,6 |  | 0 | Minimum quantity to order |
| Status |  | Boolean |  |  | 1 | 1=Active ,2=Inactive |
| serial |  | Varchar | 50 | Y |  | Refer to item used serial or not |
| Image \_url |  | Varchar | 500 | Y |  | Parth of image |
| Image\_bin |  | Varbinary | Max | Y |  | Control binary of image |
| Series |  |  |  |  |  |  |
| Model |  |  |  |  |  |  |
| Depreciation\_method |  | Int |  |  |  | Method (Straight Line) |
| Depreciation\_type |  | Int |  |  |  | Rate per year or fixed year |
| Depreciation\_rate |  | Decimal | 18,6 |  |  |  |
| Asset term |  | Int |  |  |  | Age of asset as year |
| memo |  | Varchar | 100 | y |  |  |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Unit of Measurement**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Name | |  | | Varchar | | 50 | |  | |  | |  |
| Remark | |  | | Varchar | | 1000 | | y | |  | |  |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Item Pricing**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Item\_id | | FK | |  | |  | |  | |  | |  |
| Um\_id | | FK | | Varchar | | 50 | |  | |  | |  |
| Multiplier | |  | |  | |  | |  | |  | |  |
| Price | |  | |  | |  | |  | |  | |  |
| Remark | |  | | Varchar | | 1000 | | y | |  | |  |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Opening stock**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Date | |  | | Varchar | | 50 | |  | |  | |  |
| Ref\_no | |  | | Varchar | | 1000 | | y | |  | |  |
| memo | |  | |  | |  | |  | |  | |  |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Opening stock detail**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Opening\_stock\_id | | Fk | |  | |  | |  | |  | |  |
| Item\_id | |  | | varchar | | 50 | |  | |  | |  |
| location\_id \_id | |  | | varchar | | 1000 | | y | |  | | Default stored that we setup |
| Qty | |  | |  | |  | |  | |  | |  |
| Um | |  | |  | |  | |  | |  | |  |
| total\_qty | |  | |  | |  | |  | |  | | Multiplier of UM \* Qty |
| Cost | |  | |  | |  | |  | |  | | Cost of one qty of base UM |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Adjust stock**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Date | |  | | varchar | | 50 | |  | |  | |  |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | | Default stored that we setup |
| memo | |  | |  | |  | |  | |  | |  |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Adjust stock detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Adjustock\_id | Fk | Int |  |  |  |  |
| Item\_id |  | varchar | 50 |  |  |  |
| location\_id |  | varchar | 1000 | y |  | Default stored that we setup |
| Qty |  |  |  |  |  |  |
| Um |  |  |  |  |  |  |
| total\_qty |  |  |  |  |  | Multiplier of UM \* Qty |
| Cost |  |  |  |  |  | Cost of one qty of base UM |
| Adjust\_type\_id | FK | Int |  |  |  | Loss=1;breaken=2;Issue for user=3;others stock out=4;others stock In=5 |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Transfer stock**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Date | |  | | varchar | | 50 | |  | |  | |  |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | |  |
| From\_locatin\_id | | Fk | | Int | |  | |  | |  | |  |
| To\_lacation\_id | | Fk | | Int | |  | |  | |  | |  |
| memo | |  | |  | |  | |  | |  | |  |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Transfer stock detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| transfer\_id | Fk | Int |  |  |  |  |
| Item\_id |  | varchar | 50 |  |  |  |
| Qty |  |  |  |  |  |  |
| Um |  |  |  |  |  |  |
| total\_qty |  |  |  |  |  | Multiplier of UM \* Qty |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

1. **Customer** 
   1. **Customer info**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Name |  | varchar | 50 |  |  |  |
| Legal\_name |  | varchar | 50 |  |  |  |
| Phone |  | varchar | 100 | Y |  |  |
| Mobile |  | varchar | 100 | Y |  |  |
| E\_mail |  | varchar | 100 | Y |  |  |
| Web\_site |  | varchar | 100 | y |  |  |
| Address |  | varchar | 500 | Y |  |  |
| Contact\_name |  | varchar | 50 | Y |  |  |
| Contact\_mobil |  | varchar | 50 | Y |  |  |
| Contact\_idcard |  | varchar | 50 | y |  |  |
| Conact\_e\_mail |  | varchar | 100 | Y |  |  |
| Contact address |  | varchar | 500 | Y |  |  |
| Vat\_tin |  | Varchar | 100 | Y |  | Number vat of customer’s compnay |
| Is\_system\_create |  | Boolean |  |  |  | Yes and No |
| Create\_by |  | Int |  | y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Sale order**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Sale\_order\_no |  |  |  |  |  |  |
| Date |  | varchar | 50 |  |  |  |
| Expect\_date |  |  |  | y |  | Date of expectation we will provide the production to client |
| Ref\_no |  | varchar | 1000 | y |  | Default stored that we setup |
| total\_amount |  | Decimal | 18,6 |  |  | Sum of **extent\_price** of sale order product detail |
| Depositon\_note |  | Decimal | 18,6 |  |  | To note the deposit of customer |
| memo |  |  |  | Y |  |  |
| Flag |  | Int |  |  | 1 | 1=Pending, 2=Approve;3=Reject;4=Received |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Sale order detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Sale\_order\_id | Fk | Int |  |  |  |  |
| Item\_id | Fk | varchar | 50 |  |  |  |
| Description |  | Varchar | 500 | y |  |  |
| Qty |  |  |  |  |  |  |
| Um\_id |  |  |  |  |  |  |
| total\_qty |  |  |  |  |  | Multiplier of UM \* Qty |
| Price |  |  |  |  |  | Price of one qty of base UM |
| Extent\_price |  | Decimal | 18,6 |  |  | `Total\_qty \* price |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Invoice**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark |
| Id | | PK | | Int | |  | |  | |  | |  |
| Invoice\_no | |  | |  | |  | |  | |  | | Auto generate base on configuration formart (Tax or No Tax) |
| quotation \_id | |  | |  | |  | |  | |  | |  |
| Customer\_id | |  | | Int | |  | |  | |  | | Relate to customer table |
| Date | |  | | varchar | | 50 | |  | |  | |  |
| due\_date | |  | |  | |  | | y | |  | | Last day of Account Receivable |
| Location\_id | |  | | Int | |  | | Y | |  | |  |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | | Default stored that we setup |
| Total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Sum of **extent\_price** of sale order product detail |
| Discount\_percentage | |  | | Decimal | | 18,6 | |  | |  | | Discount on invoice as % |
| Discount\_amount | |  | | Decimal | | 18,6 | |  | |  | | Discount on invoice as number |
| Tax\_percentage | |  | | Decimal | | 18,6 | |  | |  | | Tax on invoice after discount as % |
| Tax\_amount | |  | | Decimal | | 18,6 | |  | |  | | Tax on invoice after discount as number = (total\_amount \* tax percentage )/100 |
| Grand\_total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Final amount = Total\_amount-discount + tax |
| memo | |  | |  | |  | | Y | |  | |  |
| Flag |  | | Int | |  | |  | | 1 | | 1=Not yet pay;2=Partial Payment3;3=Paid | |
| Status |  | | Varchar | | 1 | | N | |  | | S= Submit , V = Void | |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Invoice Detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Invoice\_id |  | Int |  |  |  | Relate to invoice |
| Item\_id | Fk | varchar | 50 |  |  |  |
| Description |  | Varchar | 500 | y |  |  |
| Serial |  | Varchar | 50 | y |  |  |
| Qty |  | Decimal | 18,6 |  |  |  |
| Um\_id |  | Int |  |  |  |  |
| total\_qty |  | Decimal | 18,6 |  |  | Multiplier of UM \* Qty |
| Price |  | Decimal | 18,6 |  |  | Price of one qty of base UM |
| Extent\_price |  | Decimal | 18,6 |  |  | Total\_qty \* price |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Receive payment :**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark | |
| Id | | PK | | Int | |  | |  | |  | |  | |
| Receipt\_no | |  | |  | |  | |  | |  | | Auto number . format and digit base on configuration | |
| customer \_id | |  | |  | |  | |  | |  | |  | |
| date | |  | | varchar | | 50 | |  | |  | |  | |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | | Default stored that we setup | |
| Total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Total amount of sale order product | |
| Discount\_percentage | |  | | Decimal | | 18,6 | |  | |  | | Discount on invoice as % | |
| Discount\_amount | |  | | Decimal | | 18,6 | |  | |  | | Discount on invoice as number | |
| Grand\_total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Final amount = Total\_amount-discount | |
| memo | |  | |  | |  | |  | |  | |  | |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Receive payment detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| invoice\_id | Fk | varchar | 50 |  |  |  |
| amount |  | Decimal | 18,6 |  |  |  |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

1. **Vendor** 
   1. **Vender info**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Name |  | varchar | 50 | y |  | Default stored that we setup |
| Legal\_name |  | varchar | 50 |  |  |  |
| Phone |  | varchar | 100 |  |  |  |
| Mobile |  | varchar | 100 |  |  | Multiplier of UM \* Qty |
| E\_mail |  | varchar | 100 |  |  | Cost of one qty of base UM |
| Web\_site |  | varchar | 100 |  |  |  |
| Address |  | varchar | 500 |  |  |  |
| Contact\_name |  | varchar | 50 |  |  |  |
| Contact\_mobil |  | varchar | 50 |  |  |  |
| Contact\_idcard |  | varchar | 50 |  |  |  |
| Conact\_e\_mail |  | varchar | 100 |  |  |  |
| Contact address |  | varchar | 500 |  |  |  |
| Is\_system\_create |  | Boolean |  |  |  | Express this record is system values |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Purchase order**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark | |
| Id | | PK | | Int | |  | |  | |  | |  | |
| Purchase\_order\_no | |  | |  | |  | |  | |  | | Auto number . format and digit base on configuration | |
| Date | |  | | varchar | | 50 | |  | |  | |  | |
| Expect\_date | |  | |  | |  | | y | |  | |  | |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | | Other document no referred to the transaction | |
| Total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Total amount of purchase order product | |
| memo | |  | |  | |  | |  | |  | |  | |
| Flag |  | | Int | |  | |  | | 1 | | 1=Pending, 2=Approve;3=Reject;4=Received | |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Purchase order detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Item\_id | Fk | varchar | 50 |  |  |  |
| Description |  | Varchar | 500 | y |  |  |
| Qty |  | Decimal | 18,6 |  |  |  |
| Um\_id |  |  |  |  |  |  |
| total\_qty |  | Decimal | 18,6 |  |  | Multiplier of UM \* Qty |
| Cost |  | Decimal | 18,6 |  |  | Cost of one qty of base UM |
| Extent\_cost |  | Decimal | 18,6 |  |  | `Total\_qty \* cost |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **PurchaseBill**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark | |
| Id | | PK | | Int | |  | |  | |  | |  | |
| Bill\_no | |  | |  | |  | |  | |  | | Auto number . format and digit base on configuration | |
| Purchase\_order \_id | |  | |  | |  | |  | |  | |  | |
| Date | |  | | date | |  | |  | |  | | Issue date | |
| due\_date | |  | | date | |  | | y | |  | |  | |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | | Other document no referred to the transaction | |
| Total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Total amount of product cost | |
| Discount\_percentag | |  | | Decimal | | 18,6 | |  | |  | |  | |
| Discount\_amount | |  | | Decimal | | 18,6 | |  | |  | |  | |
| grand\_total\_amount | |  | | Decimal | | 18,6 | |  | |  | |  | |
| memo | |  | | text | |  | |  | |  | |  | |
| Flag |  | | Int | |  | |  | | 1 | | 1=Not yet pay;  2=Partial payment ;3=Full Paid | |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **Purchase Bill Detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Item\_id | Fk | varchar | 50 |  |  |  |
| Description |  | Varchar | 500 | Y |  |  |
| Serial\_no |  | Varchar | 50 | Y |  |  |
| Qty |  | Decimal | 18,6 |  |  |  |
| Um\_id | FK | Int |  |  |  |  |
| total\_qty |  | Decimal | 18,6 |  |  | Multiplier of UM \* Qty |
| Cost |  | Decimal | 18,6 |  |  | cost of one qty of base UM |
| extent\_cost |  | Decimal | 18,6 |  |  | `Total\_qty \* cost |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Payment voucher**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Field | | Constraint | | Data Type | | Length | | Null | | Default Value | | Remark | |
| Id | | PK | | Int | |  | |  | |  | |  | |
| Payment\_vourcher\_no | |  | | Varchar | | 10 | |  | |  | |  | |
| vender \_id | | FK | |  | |  | |  | |  | |  | |
| date | |  | | date | |  | |  | |  | |  | |
| Ref\_no | |  | | varchar | | 1000 | | y | |  | |  | |
| Total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Total amount of payment of each invoice | |
| Discount\_percentage | |  | | Decimal | | 18,6 | |  | |  | | Discount on payment voucher as % | |
| Discount\_amount | |  | | Decimal | | 18,6 | |  | |  | | Discount on payment voucher as number = total (payment \* discount percentage )/100 | |
| Grand\_total\_amount | |  | | Decimal | | 18,6 | |  | |  | | Final amount = Total\_payment -discount | |
| memo | |  | |  | |  | |  | |  | |  | |
| Create\_by |  | | Int | |  | | Y | |  | | User created the data | |
| Modify\_by |  | | Int | |  | | Y | |  | | User modified the data | |
| Create\_date |  | | Datetime | |  | | Y | |  | |  | |
| Modify\_date |  | | Datetime | |  | | y | |  | |  | |

* 1. **PaymentVoucerDetail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Purchase\_bill\_id | Fk | int |  |  |  |  |
| amount |  | Decimal | 18,6 |  |  | Amount payment of each invoice |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

1. **Maintenance Service**
   1. **Maintenance**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Maintenance\_no |  | varchar | 50 |  |  |  |
| Invoice\_id | Fk |  |  |  |  |  |
| amount |  | Decimal | 18,6 |  |  | Total amount of amount detail maintenance |
| Flag |  | Int |  |  |  | 1=Active,0=Terminate |
| Start\_date |  | date |  |  |  | Maintenance start from |
| End\_date |  | date |  |  |  | End date of this maintenance |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Maintenance detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| maintenance\_id | Fk | Int |  |  |  |  |
| Item\_id | Fk | Int |  |  |  |  |
| Description |  | Varchar | 500 | y |  |  |
| Serial\_no |  | Varchar | 50 | y |  |  |
| Qty |  | Decimal | 18,6 |  |  |  |
| Um\_id |  | Int |  |  |  |  |
| total\_qty |  | Decimal | 18,6 |  |  | Multiplier of UM \* Qty |
| Is\_free |  | Boolean |  |  |  | True = free , false = charge |
| Price |  | Decimal | 18,6 |  |  | cost of one qty of base UM. It can be zero |
| extent\_price |  | Decimal | 18,6 |  |  | Total\_qty \* cost |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

1. **Rental Service**
   1. **Issue rental**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Rental\_no |  | varchar | 50 |  |  |  |
| amount |  | Decimal | 18,6 |  |  | Total amount of rental detail not include free item |
| Flag |  | Int |  |  |  | 1=Normar,0=Terminate |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Issue rental detail**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Item\_id | Fk | Int |  |  |  |  |
| Description |  | Varchar | 500 | y |  |  |
| Serial |  | Varchar | 50 | y |  |  |
| Qty |  | Decimal | 18,6 |  |  |  |
| Um\_id |  | Int |  |  |  |  |
| total\_qty |  | Decimal | 18,6 |  |  | Multiplier of UM \* Qty |
| Is\_free |  | Boolean |  |  |  | True = free , false = charge |
| price |  | Decimal | 18,6 |  |  | Cost of one qty of base UM. It can be zero |
| Total\_amount |  | Decimal | 18,6 |  |  | Total\_qty \* cost |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

1. **Others**
   1. **TrasactionType**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Description |  | Varchar |  |  |  | Date of user input of each transaction |
| Flag |  |  |  |  |  | 1=Increase , -1=Decrease |

* Purchase Invoice=1
* Payment voucher =2
* Purchase Return=3
* Sale Invoice=4
* Customer Payment=5
* Sale Return=6
* Opening Stock=7
* Adjust Stock=8
* Transfer=9
  1. EOM

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Date |  | varchar |  |  |  | Date of user input of each transaction (must encrypt and decrypt follow by in formula in coding) |
| Password | Fk | varchar | 50 |  |  | At least 3 characters(must encrypt and decrypt follow by in formula in coding) |
| Memo |  | text |  | Y |  |  |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **StockTransaction**: record all transaction of stock in and stock out . it is like the history

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| transaction\_type\_id | Fk | int |  |  |  | Transaction type of supplier (purchase , payment voucher) |
| Ref\_no |  | varchar | 50 |  |  | Reference of each transaction |
| Date |  | Datetime |  |  |  | Date of user input of each transaction |
| Item\_id |  | Int |  |  |  |  |
| Serial\_no |  | Varchar | 50 |  |  |  |
| Qty |  | Decimal | 18,6 |  |  | Can be positive or appositive |
| Um\_id |  | Int |  |  |  |  |
| Total\_qty |  | Decimal | 18,6 |  |  | Can be positive or appositive |
| Input cost |  | Decimal | 18,6 |  |  | Example Purchase cost but for selling process it equal AVC cost |
| AVC Cost |  | Decimal | 18,6 |  |  | Average costing |
| Total\_value |  | Decimal | 18,6 |  |  | Qty \* AVC cost |
| Location\_id |  | Int |  |  |  |  |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **VenderTransaction**: Record all transact involved with supplier to balance of the account payable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Transaction\_id |  | Int |  |  |  | ID of each transaction |
| Date |  | Datetime |  |  |  | Date of user input of each transaction |
| transaction\_type\_id | Fk | varchar | 50 |  |  | Transaction type of supplier (purchase , payment voucher) |
| Ref\_no |  | varchar | 50 |  |  | Reference of each transaction |
| amount |  | Decimal | 18,6 |  |  | (+) or (-) base on |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **CustomerTransation**: Record all transact involved with customer to balance of the account payable

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Transaction\_id |  | Int |  |  |  | ID of each transaction |
| Date |  | Datetime |  |  |  | Date of user input of each transaction |
| transaction\_type\_id | Fk | varchar | 50 |  |  | Transaction type of customer (invoice ,receive payment) |
| Ref\_no |  | varchar | 50 |  |  | Reference of each transaction |
| amount |  | Decimal | 18,6 |  |  | (+) or (-) base on |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Vender Balance**: Back last balance of vendor of the period . they always create when they run EOM

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| vender\_id | FK | Int |  |  |  | ID of each transaction |
| Date |  | Datetime |  |  |  | End date of the period |
| balance |  | Decimal | 18,6 |  |  | Last balance of the end of the period |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Customer Balance** : last balance of customer of the period . they always create when they run EOM

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| customer\_id | FK | Int |  |  |  | ID of each transaction |
| Date |  | Datetime |  |  |  | End date of the period |
| balance |  | Decimal | 18,6 |  |  | Last balance of the end of the period |
| Create\_by |  | Int |  | Y |  | User created the data |
| No |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. **Stock Balance** : last balance of any items of the period . they always create when they run EOM\

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| item\_id | FK | Int |  |  |  | ID of each transaction |
| Date |  | Datetime |  |  |  | End date of the period |
| balance |  | Decimal | 18,6 |  |  | Last balance of the end of the period |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |

* 1. Eod: for keep end of day when company need to close transaction (customer transaction , vender transaction and stock transaction)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Field | Constraint | Data Type | Length | Null | Default Value | Remark |
| Id | PK | Int |  |  |  |  |
| Date |  | String |  |  |  | Data encrypt using rails |
| Password |  | String |  |  |  | Data encrypt by using rails |
| Status |  | String |  |  |  | Encrypt (Open, Closed) |
| Memo |  | text |  |  |  |  |
| Create\_by |  | Int |  | Y |  | User created the data |
| Modify\_by |  | Int |  | Y |  | User modified the data |
| Create\_date |  | Datetime |  | Y |  |  |
| Modify\_date |  | Datetime |  | y |  |  |