* + 1. **DATABASE DESIGN**

**Database Tables:**

Database is a collection of data which contains information relevant to an enterprise where Data Base Management system (DBMS) is a collection of inter-related data and a set of program to access those data. The primary goal of a DBMS is to provide a way to store and retrieve database information that is both convenient and efficient. The database in turn is further described in detail giving all the fields used with their data type, constraints available to them and description. Constraints include primary key, foreign key, etc. which allow the entities to be uniquely identified.

**Database Description**

Database description describes all the database used in the software to store all the records. The database used in turn is further described in detail giving all the fields used with their data type, constraints available to them and description.

**Introduction**

The database used in the system is DB\_EXAMINATION and this is the one and only database in the system which is used to store the all the records of the Examination. There EIGHTtables are coming under this database to manage the entire system easily and accurately.

**DETAILS OF TABLES USED:**

|  |  |  |
| --- | --- | --- |
| SL NO. | TABLE NAME | DESCRIPTION |
| 1 | admin | This table stores Information for Admin. |
| 2 | billingtb | This table stores billing details. |
| 3 | category | This table stores category Details. |
| 4 | subcategory | This table stores subcategory Details.. |
| 5 | Customertb | This table stores Customer Details. |
| 6 | Employee | This table stores Employee Details. |
| 7 | Products | This table stores Products details. |
| 8 | Purchase | This table stores Purchase Details |
| 9 | Recordstb | This table stores Records Details. |
| 10 | Salary | This table stores Salary Details. |
| 11 | Tbl\_attendnance | This table stores attendnance Details. |
| 12 | Tbl\_retailer | This table stores supplier Details. |
| 13 | Transctiontb | This table stores transaction Details. |
| 14 | userlog | This table stores Userlog Details. |

**Tables Description:**

* 1. **Table Name :** Admin

**Description:** This Table stores information of the Admin.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***id*** | int(11) | Primary key | Admin Id |
| username | varchar(255) | Unique | Admin User name |
| password | varchar(255) | Not Null | Password |
| creationDate | Timestamp | CURRENT\_TIMESTAMP | Creation date |
| updationDate | varchar(255) | Not Null | Updation date |

* 1. **Table Name :** billingtb

**Description:** This Table stores information of the billing.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***bill\_id*** | int(10) | Primary key | Bill id |
| bill\_type | varchar(15) | Not Null | Bill type |
| bill\_no | int(10) | Not Null | Bill number |
| customer\_id | int(10) | Foreign Key | Customer id |
| order\_date | date | Not Null | Order date |
| del\_date | date | Not Null | Delivery date |
| del\_time | time | Not Null | Delivery time |
| tax | float(10,2) | Not Null | Tax for billing |
| tax\_typ | varchar(20) | Not Null | Tax type |
| payment\_type | varchar(20) | Not Null | Payment type |
| particulars | text | Not Null | Particulars |
| paymentdate | date | Not Null | Payment date |
| status | varchar(10) | Not Null | Status |
| deliverystatus | varchar(20) | Not Null | Delivery Status |
| remark | text | Not Null | Remark |
| deliveredone | datetime | Not Null | Delivery time |

* 1. **Table Name :** category

**Description:** This Table stores information of the category.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***Id*** | int(11) | Primary key | Category id |
| categoryName | varchar(255) | Not Null | Category name |
| categoryDescription | longtext | Not Null | Category description |
| creationDate | timestamp | CURRENT\_TIMESTAMP | Category Creation date |
| updationDate | varchar(255) | Not Null | Updation date |

* 1. **Table Name :** Customertb

**Description:** This Table stores information of the customer.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***customer\_id*** | int(10) | Primary key | Customer id |
| login\_id | varchar(50) | Unique | Customer login id |
| Password | varchar(100) | Not Null | Password |
| Address | text | Not Null | Address of customer |
| City | varchar(25) | Not Null | City |
| shop\_name | varchar(100) | Not Null | Shop name |
| tin\_Not Null | varchar(15) | Not Null | GSTIN number |
| mobile\_Not Null | varchar(15) | Not Null | Contact number |
| status | varchar(10) | Not Null | Status |

* 1. **Table Name :** Employee

**Description:** This Table stores information of the employee.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***emp\_id*** | int(50) | Primary key | Employee id |
| employee\_name | varchar(50) | Not Null | Employee name |
| employee\_add | varchar(100) | Not Null | Employee address |
| gender | varchar(50) | Not Null | Gender |
| emp\_contact | varchar(50) | Not Null | Contact number |
| designation | varchar(50) | Not Null | Designation of employee |
| salary | int(11) | Not Null | Salary |

* 1. **Table Name :** Products

**Description:** This Table stores information of the Products

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***id*** | int(11) | Primary key | Product id |
| category | int(11) | Not Null | Category name |
| subCategory | int(11) | Not Null | Subcategory name |
| productName | varchar(255) | Not Null | Product name |
| ret\_id | int(10) | Foreign Key | Supplier id |
| p\_purchase\_p | double(10,2) | Not Null | Product purchase price |
| productDescription | longtext | Not Null | Product description |
| productImage1 | varchar(255) | Not Null | Product image |
| postingDate | timestamp | CURRENT\_TIMESTAMP | Product date |
| p\_sell\_p | double(10,2) | Not Null | Product selling date |

* 1. **Table Name :** purchase

**Description:** This Table stores information of the purchase.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***purchaseid*** | int(10) | Primary key | Purchase id |
| productid | int(10) | Foreign Key | Product id |
| Unit | varchar(10) | Not Null | Unit |
| Qty | int(10) | Not Null | Quantity |
| purchaseprice | double(10,2) | Not Null | Purchase price |
| totqty | int(11) | Not Null | Total quantity |
| status | varchar(10) | Not Null | Status |

**8.Table Name :** Recordstb

## Description: This Table stores information of the Records

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***bill\_recid*** | int(10) | Primary key | Bill record id |
| bill\_id | int(10) | Foreign Key | Bill id |
| item\_id | int(10) | Foreign Key | Item id |
| Qty | float | Not Null | Quantity |
| item\_cost | float(10,2) | Not Null | Item cost |
| Status | varchar(10) | Not Null | Status |
| Uom | varchar(10) | Not Null | Unit of measurement |

* 1. **Table Name :** employee

**Description:** This Table stores information of the employee.

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***salaryid*** | int(10) | Primary key | Salary id |
| emp\_id | int(10) | Foreign Key | Employee id |
| salmonth | date | Not Null | Month |
| workingdays | int(10) | Not Null | Working days in a month |
| workeddays | int(10) | Not Null | Total days employee worked |
| holidays | int(10) | Not Null | Number of holidays |
| leavetaken | int(10) | Not Null | Leave taken |
| bsalary | double(10,2) | Not Null | Basic salary for employee |
| deduction | double(10,2) | Not Null | Deduction |
| bonus | double(10,2) | Not Null | Bonus |

* 1. **Table Name :** subcategory

**Description:** This Table stores information of the subcategory

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***id*** | int(11) | Primary key | Subcategory id |
| categoryid | int(11) | Foreign Key | Category id |
| subcategory | varchar(255) | Not Null | Subcategory name |
| creationDate | timestamp | CURRENT\_TIMESTAMP | Creation date |
| updationDate | varchar(255) | Not Null | Updation date |

## 10. Table Name : Tbl\_attendnance

## Description: This Table stores information of the Tbl\_attendnance

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***att\_id*** | int(50) | Primary key | Attendnance id |
| emp\_id | int(50) | Foreign Key | Employee id |
| attdate | date | Not Null | Attendnance date |
| holidays | varchar(11) | Not Null | Holidays |
| attstatus | varchar(25) | Not Null | Attendnance status |

1. **Table Name :** tbl\_retailer

**Description:** This Table stores information of the tbl\_retailer

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***ret\_id*** | int(50) | Primary key | Supplier id |
| ret\_name | varchar(50) | Not Null | Supplier name |
| ret\_address | varchar(200) | Not Null | Supplier address |
| ret\_contact | varchar(15) | Not Null | Supplier contact |
| ret\_code | varchar(50) | Not Null | Retailer code |

1. **Table Name :** userlog

**Description:** This Table stores information of the userlog

|  |  |  |  |
| --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | **Description** |
| ***id*** | int(11) | Primary key | User log |
| userEmail | varchar(255) | Not Null | User email address |
| userip | varchar(50) | Not Null | User IP address |
| loginTime | timestamp | CURRENT\_TIMESTAMP | Login time |
| logout | varchar(255) | Not Null | Logout |
| status | int(11) | Not Null | Status |

1. **Table Name :** transactiontb

**Description:** This Table stores information of the transactiontb

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field Name | **Type** | **Constaints** | | **Description** |
| ***Transaction\_id*** | int(10) | | Primary key | Transaction id |
| Bill\_id | int(10) | | Foreign key | Bill id |
| Trans\_type | Varchar(10) | | Not Null | Transaction type |
| Customer\_id | int(10) | | Foreign key | Customer id |
| User\_id | int(10) | | Foreign key | User id |
| Amt | Float(10,2) | | Not Null | Amount |
| Tax\_amt | Float(10,2) | | Not Null | Tax amount |
| discount\_amt | double(10,2) | | Not Null | Discount amount |
| Payment\_type | Varchar(20) | | Not Null | Payment type |
| Payment\_details | Text | | Not Null | Payment details |
| Trans\_date | Date | | CURRENT\_TIMESTAMP | Transaction date |
| status | Varchar(10) | | Not Null | Status |