**Database Design:**

1. Create a new table **User** with below columns

**Table Name: User**

|  |  |  |  |
| --- | --- | --- | --- |
| Columns Name | Data Type | Constraints | Description |
| user\_id | Int | Primary Key , Not Null | This is the primary key of the table. It will also be used as the user id for the login page |
| user\_password | Varchar(20) | Not null | This is the password for the login credentials for the particular user. |
| name | Varchar(25) | Not null | This field will take the name of the user. |
| email\_id | Varchar(50) | Not null | This is the e-mail id of the user. All the updates can be sent as a mail to the user. |
| dob | Date | Not Null | This field takes the birth date of the customer. |
| contact\_number | Varchar(14) | Not null | This is the phone number of the user. |
| address | Varchar(100) | Not null | This is the address where the user lives at |
| pin\_code | int | Not null | The pincode for the particular user |
| role | Varchar(10) | Not null | This field is to specify whether the user is an Admin or an user. |

1. Create table **Product** with the below columns

|  |  |  |  |
| --- | --- | --- | --- |
| Columns Name | Data Type | Constraints | Description |
| product\_id | int | Primary key, Not null | This is the id for the particular product. It will be the Primary key for this table. |
| product\_Name | Varchar(50) | Not Null | This is the name for the particular product. |
| Product\_price | int | Not Null | This is the price for the particular product |
| category\_id | int | Foreign key, Not Null | This is a foreign key for the Product table and it can be used to link the category table to the Product table |

3)

Create table **line\_items** with the below columns

|  |  |  |  |
| --- | --- | --- | --- |
| Columns Name | Data Type | Constraints | Description |
| lineitems\_id | int | Primary key | This will be the primary key for the table Inventory |
| product\_id | int | Foreign key, Not null | This will be the |
| quantity | int | Not null | The amount of items you want to order |
| order\_id | int | Foreign key, Not null | This is the foreign key present in line\_items, it links the table with orders table. |

4)

Create table **Order** with the below columns

|  |  |  |  |
| --- | --- | --- | --- |
| Columns Name | Data Type | Constraints | Description |
| order\_id | int | Primary key, not null | This is the order id for the particular order |
| user\_id | Varchar(20) | Foreign key, Not null | This is a foreign key in orders, it will link the users id with the customer name present inside the orders table |
| order\_price | int | not null | This is the total amount of money that the customer has to pay in order to receive his ordered items. |
| order\_date | date | Not null | This is a field present inside the order table, it will take the date on which the order was placed. |