**5.2 Database Design/Data Structure Design**

**5.2.1 Data Dictionary**

**Retailer table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| R\_id | Int | 3 | Primary Key/Auto Inc | Store the id of retailer |
| Name | Varchar2 | 100 | Not Null | Store the name of retailer |
| Address | Varchar2 | 100 | Not Null | Store the address of retailer |
| Phone | Decimal | 10 | Not Null | Store the phone number of retailer |
| Email | Varchar2 | 30 | Not Null | Store the email of retailer |
| Password | Varchar2 | 20 | Not Null | Store the password |
| D\_LN | Varchar2 | 30 | Not Null | Store the drugs license number |

**[Table:5.1.1 Retailer table]**

**Agency\_detail Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| a\_id | Int | 3 | Primary Key/Auto Inc | Store the id of stockiest |
| Name | Varchar2 | 100 | Not Null | Store the name of stockiest |
| Address | Varchar2 | 100 | Not Null | Store address of stockiest |
| Number | Decimal | 10 | Not Null | Store phone number of stockiest |
| Email | Varchar2 | 30 | Not Null | Store the email of stockiest |
| D\_LN | Varchar2 | 30 | Not Null | Store the drugs license number |
| Password | Varchar2 | 20 | Not Null | Store the password |
| Des | Varchar2 | 200 | Not Null | Store Description |

**[Table:5.1.2 Stockiest table]**

**Product Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| P\_id | Int | 3 | Primary Key/ Auto inc | Store the id of product |
| P\_name | Varchar2 | 10 | Not null | Store the name of product |
| Des | Varchar2 | 100 | Not null | Store the description |

**[Table:5.1.3 Product table]**

**Add\_To\_Cart Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| Acid | Int | 3 | Primary Key/ Auto inc | Store id of the cart |
| Sp\_id | Int | 3 | Foreign Key | Store id of the sub products |
| Pname | Varchar2 | 100 | Not Null | Store name of Products |
| Qty | Varchar2 | 100 | Not null | Store Quantity |
| Rate | Int | 5 | Not null | Store Rate |
| R\_id | Int | 3 | Foreign Key | Store the id of retailer |

**[Table:5.1.4 cart table]**

**Sub\_product Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| Sp\_id | Int | 3 | Primary key/ Auto inc | Store id of sub product |
| Name | Varchar2 | 100 | Not Null | Store name of sub products |
| Content | Varchar2 | 100 | Not Null | Store content of sub products |
| Stock | Varchar2 | 100 | Not Null | Store stock of sub products |
| Rate | Int | 5 | Not Null | Store rate of sub products |
| Exp\_date | Date | 10 | Not Null | Store Exp\_date ofsubbproducts |
| Mfg\_date | Date | 10 | Not Null | Store Mfg\_date ofsub products |
| P\_id | Int | 3 | Foreign Key | Store id of the products |
| Company | Varchar2 | 20 | Noy Null | Store Company name |

**[Table:5.1.5 subproduct table]**

**Order\_details Table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| O\_id | Int | 3 | Primary key/ Auto inc | Store the id of Order |
| Name | Varchar2 | 100 | Not null | Store name |
| Address | Varchar2 | 100 | Not Null | Store Address |
| Phone | Decimal | (10,0) | Not Null | Store Phone |
| Pname | Varchar2 | 30 | Not Null | Store Product Name |
| Rate | Varchar2 | 10 | Not Null | Store Price |
| Qty | Varchar2 | 100 | Not Null | Store Quantity |
| Sp\_id | Int | 3 | Foreign key | Store the id of sub\_products |
| O\_date | Varchar2 | 20 | Not Null | Store date |
| Status | Varchar2 | 20 | Not Null | Store status |
| R\_id | Int | 3 | Foreign key | Store the id of retailer |

**[Table:5.1.6 Order\_detail table]**

**Feedback Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data type** | **Size** | **Constrain** | **Description** |
| F\_id | Int | 3 | Primary key/ Auto inc | Store the id of Feedback |
| Fname | Varchar2 | 50 | Not null | Store name |
| Fdes | Varcher2 | 100 | Not null | Store description |
| Frate | Float | 10 | Not Null | Store rate |
| R\_id | Int | 3 | Foreign key | Store the id of retailer |

**[Table:5.1.7 feedback table]**

* + 1. **Logical Description of Data**
* **Retailer table:** This table includes retailer’s information including his fullname, address, email,phone,password etc.
* **Stokiest table:** This table includes stokiest’s information such as name,address,phone,email,password,Drug license number etc .
* **Product table:** This table includes information about product name and details.
* **SubProduct table:** This table includes subproducts name ,content ,rate ,stock ,Exp\_date ,Mfg\_date etc..
* **Cart\_detail table:** This table includes information about product rate and quenty.
* **Order\_details table:** This table includes information about order name..
* **Feedback\_detail table:** This table includes information about feedback of Retailer.