**Covid 19 – Quararantaine Assistant (CARE-App)**

**TABLE DESIGN**

1. **User\_Type:**

* *This table contains different user types in this system. Helps to differentiate different users*
* ***PRIMARY KEY: UType\_id***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | UType\_id | Int | Primary key | 0|1|2|3|4|5 |
| 2 | UserType | Varchar2 | Not Null | Admin | PnchytOff | PoliceOff | MediStaf | Volunteer | User |
| 3 | Status | Boolean | 1 | 0 | 1-active| 0-not active |

1. **Login:**

* This table have login credentials of all users. *Status field determine whether the user is active or not.*
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: UType\_id (References User Type table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key | Primary key |
| 2 | PhoneNo | Varchar2 | Unique | Unique Username |
| 3 | Email | Varchar2 | Unique | Unique Username |
| 4 | Password | Varchar2 | Not Null | Strong password |
| 5 | UType\_id | Int | Foreign key | 0|1|2|3|4|5  References User Type table |
| 6 | Status | Boolean | 1 | 0 | 1-active| 0-not active |

1. **Admin:**

* This table contains basic details of Admin
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key| Foreign key | Foreign key reference the Login table |
| 2 | Name | Varchar2 | Not null | Name of Admin |
| 3 | Status | Int | 1 |0 | 1-active| 0-not active |

1. **Panchayat\_Officer:**

* This table contains basic details of Panchayat Officer
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key|  Foreign key | Foreign key reference the Login table |
| 2 | Name | Varchar2 | Not null | Name of Panchayat Officer |
| 3 | Pnchyt\_id | int | Foreign key | Foreign key references panchayat table |
| 4 | Status | Int | 1 |0 | 1-active| 0-not active |

1. **Volunteer:**

* This table contains basic details of Volunteer
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key|  Foreign key | Foreign key reference the Login table |
| 2 | Name | Varchar2 | Not null | Name of Volunteer |
| 3 | Place\_id | int | Foreign key | Foreign key reference the place table |
| 4 | Status | Int | 1 |0 | 1-active| 0-not active |

1. **Medical\_Staff:**

* This table contains basic details of Medical Staff
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key|  Foreign key | Foreign key reference the Login table |
| 2 | Name | Varchar2 | Not null | Name of Medical Staff |
| 3 | Pnchyt\_id | int | Foreign key | Foreign key reference the panchayat table |
| 4 | H\_id | int | Foreign key | Foreign key reference the hospital table |
| 5 | Status | Int | 1 |0 | 1-active| 0-not active |

1. **Police\_Officer:**

* This table contains basic details of Police Officer
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key| Foreign key | Foreign key reference the Login table |
| 2 | Name | Varchar2 | Not null | Name of Police Officer |
| 3 | Pnchyt\_id | int | Foreign key | Foreign key reference the panchayat table |
| 4 | Status | Int | 1 |0 | 1-active| 0-not active |

1. **User:**

* This table contains basic details of the user- the quarantined one
* ***PRIMARY KEY: U\_id***
* ***FOREIGN KEY: U\_id (References Login table)***
* ***FOREIGN KEY: Pl\_id (References Place table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | U\_id | Int | Primary key|  Foreign key | Foreign key reference the Login table |
| 2 | Name | Varchar2 | Not null | Name of Quarantined one |
| 3 | Pl\_id | int | Foreign key | Foreign key reference the place table |
| 4 | QDate | Varchar2 | Not null | Quarantine start date |
| 5 | Status | Int | 1 |0 | 1-active| 0-not active |

1. **Place:**

* This table contains basic details of Place- the street
* ***PRIMARY KEY: Pl\_id***
* ***FOREIGN KEY: Pnchyt\_id (References Panchayat table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | Pl\_id | Int | Primary key | Primary key |
| 2 | Place | Varchar2 | Not null | Place name |
| 3 | Pnchyt\_id | int | Foreign key | Foreign key reference the panchayat table |
| 4 | Status | Int | 1 | 0 | 1-active| 0-not active |

1. **Panchayat:**

* This table contains basic details of Panchayat
* ***PRIMARY KEY: Pnchyt\_id***
* ***FOREIGN KEY: Sd\_id (References SUB\_district table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | Pnchyt \_id | Int | Primary key | Primary key |
| 2 | Panchayat | Varchar2 | Not null | Panchayat name |
| 3 | Sd\_id | int | Foreign key | Foreign key reference the sub district table |
| 4 | Status | Int | 1 | 0 | 1-active| 0-not active |

1. **Sub District:**

* This table contains basic details of Sub District
* ***PRIMARY KEY: Sd\_id***
* ***FOREIGN KEY: Dt\_id (References District table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | Sd\_id | Int | Primary key | Primary key |
| 2 | Sd\_name | Varchar2 | Not null | Sub district name |
| 3 | Dt\_id | int | Foreign key | Foreign key reference the place table |
| 4 | Status | Int | 1 | 0 | 1-active| 0-not active |

1. **District:**

* This table contains basic details of District
* ***PRIMARY KEY: Dt\_id***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | Dt \_id | Int | Primary key | Primary key |
| 2 | Dt \_name | Varchar2 | Not null | District name |
| 3 | Status | Int | 1 | 0 | 1-active| 0-not active |

1. **Hospital :**

* This table contains basic details of Hospital
* ***PRIMARY KEY: H\_id***
* ***FOREIGN KEY: Place\_id (References Place table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | H \_id | Int | Primary key | Primary key |
| 2 | H \_name | Varchar2 | Not null | District name |
| 3 | Place\_id | Int | Foreign key | Foreign key reference the place table |
| 4 | Status | Int | 1 | 0 | 1-active| 0-not active |

1. **Product:**

* This table contains basic details of products
* ***PRIMARY KEY: Prdt\_id***
* ***FOREIGN KEY: PType\_id (References Product\_Type table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | Prdt\_id | Int | Primary key | Primary key |
| 2 | Name | Varchar2 | Not null | Name of Product |
| 3 | PType\_id | Int | Foreign key | Foreign key reference the product\_type table |
| 4 | Status | Boolean | 1|0 | 1-active| 0-not active |

1. **Product\_Type:**

* This table contains basic details of product type (a sub category of product)
* ***PRIMARY KEY: PType\_id***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | PType\_id | Int | Primary key | Primary key |
| 2 | Name | Varchar2 | Not null | Name of Product Type |
| 3 | Count | Int | Not null | Total no of Availability |
| 4 | Amount | float | Not null | Amount of 1kg |  small quantity |
| 5 | Status | Boolean | 1|0 | 1-active| 0-not active |

1. **Cart:**

* This table contains basic details of cart
* ***PRIMARY KEY: Cart\_id***
* ***FOREIGN KEY: U\_id (References Login table)***
* ***FOREIGN KEY: Prdt\_id (References Product table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | cart\_id | Int | Primary key | Primary key |
| 2 | User\_id | Int | Foreign key | Foreign key reference the user table |
| 3 | Prdt\_id | Int | Foreign key | Foreign key reference the product table |
| 3 | Count | int | Not null | Total no of each products |

1. **Order:**

* This table contains basic details of an order
* ***PRIMARY KEY: Order\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | Ordr\_id | Int | Primary key | Primary key |
| 2 | User\_id | int | Foreign key | Foreign key reference the user table |
| 3 | Orderdate | Vachar2 | Order Date | Order Date |
| 4 | mode | Boolean | Not null | Payment mode  (online: 1|cod:0) |
| 5 | Amt | Float | Not null | Total Amount |
| 6 | status | Boolean | 1|0 | 1|0 |

1. **Medical Request:**

* This table contains basic details of an medical request
* ***PRIMARY KEY: Req\_id***
* ***FOREIGN KEY: U\_id (References Login table)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl no* | *Field name* | *Datatype* | *Constraints* | *Description* |
| 1 | req\_id | Int | Primary key | Primary key |
| 2 | User\_id | int | Foreign key | Foreign key reference the user table |
| 3 | Reason | Vachar2 | Not null | Reason of request |
| 4 | Request Date | Varchar2 | Not null | Request Date |
| 6 | status | Boolean | 1|0 | 1|0 |