# CHAPTER-4

# SYSTEM MODELING

## Database dictionary

1. **Table name:** User\_registration

**Primary key:** user\_id

**[Table 1: User\_registration]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | User’s id |
| 2 | user\_name | Varchar(20) | Not null | User’s First name |
| 3 | email\_id | Varchar(30) | Unique | User’s email id |
| 4 | password | Varchar(20) | Not null | User’s password |
| 5 | confirm\_password | Varchar(20) | Not null | User’s password |
| 6 | phone\_number | BigInt(12) | Not null | User’s number |
| 7 | area | Varchar(20) | Not null | User’s area |
| 8 | address | Varchar(150) | Not null | User’s address |
| 9 | pincode | Int(6) | Not null | User’s pincode |
| 10 | user\_gender | Varchar(20) | Not null | User’s gender |

1. **Table name:** Product

**Primary key:** product\_id

**[Table 2: Product]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Product id |
| 2 | product\_name | Varchar(50) | Not null | Product name |
| 3 | product\_desc | Varchar(250) | Not null | Product description |
| 4 | product\_img1 | Varchar(40) | Not null | Product image 1 |
| 5 | product\_img2 | Varchar(40) | Not null | Product image 2 |
| 6 | product\_price | Int(6) | Not null | Product price |
| 7 | product\_stock | Int(4) | Not null | Product’s stock |
| 8 | category\_id | Int(10) | Foreign key | Category id |
| 9 | sub\_category\_id | Int(6) | Foreign key | Product’s subcategory |
| 10 | featured\_id | TinyInt(2) | Default 0 | Product featured |

1. **Table name:** Category

**Primary key:** category\_id

**[Table 3: Category]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Category id |
| 2 | category\_name | Varchar(50) | Not null | Category name |
| 3 | category\_desc | Varchar(100) | Not null | Category description |
| 4 | parent\_id | Int(10) | Default 0 | Parent id |

1. **Table name:** Area

**Primary key:** area\_id

**[Table 4: Area]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Area |
| 2 | area\_name | Varchar(30) | Not null | Area name |
| 3 | pincode | Int(6) | Not null | Area pincode |

1. **Table name:** Verification\_master

**Primary key:** id

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELD NAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | id |
| 2 | email\_id | Varchar(30) | Foreign key | Email id |
| 3 | verification\_code | Varchar(20) | Unique | Verification code |

**[Table 5: Verification\_master]**

1. **Table name:** Rating

**Primary key:** rating\_id

**[Table 6: Rating]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELD NAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | Id | Int(10) | Primary key | Rating id |
| 2 | user\_id | Int(10) | Foreign key | User’s id |
| 3 | product\_id | Int(10) | Foreign key | Product’s id |
| 4 | rating | enum('1', '2', '3', '4', '5') | Not null | Rating |

1. **Table name:** Cart

**Primary key:** cart \_id

**[Table 7: Cart]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELD NAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Cart id |
| 2 | user\_id | Int(10) | Foreign key | User’s id |
| 3 | product\_id | Int(10) | Foreign key | Product’s id |
| 4 | product\_stock | Int(10) | Not null | Product’s stock |
| 5 | product\_quantity | Int(10) | Not null | Product’s quantity |

1. **Table name:** Order

**Primary key:** order\_id

**[Table 8: Order]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Order id |
| 2 | user\_id | Int(10) | Foreign key | User’s id |
| 3 | product\_id | Int(10) | Foreign key | Product’s id |
| 4 | quantity | Int(6) | Not null | Quantity |
| 5 | order\_date | Date | Not null | Order date |

1. **Table name:** Billing

**Primary key:** billing\_id

**[Table 9: Billing]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Billing id |
| 2 | order\_id | Int(10) | Foreign key | Order id |
| 3 | invoice\_number | Int(10) | Unique | Invoice number |
| 4 | billing\_date | Date | Not null | Billing date |

1. **Table name:** Delivery

**Primary key:** delivery\_id

**[Table 10: Delivery]**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SR.NO** | **FIELDNAME** | **DATATYPE(SIZE)** | **CONSTRAINT** | **DESCRIPTION** |
| 1 | id | Int(10) | Primary key | Delivery id |
| 2 | billing\_id | Int(10) | Foreign key | Billing id |
| 3 | tracking\_number | Varchar(10) | Unique | Tracking number |
| 4 | date\_shipped | Date | Not null | Date Shipped |
| 5 | delivery\_status | TinyInt(1) | Not null | Delivery status |
| 6 | delivery\_details | Varchar(150) | Not null | Delivery details |