**DATA DICTIONARY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| user\_id | INT | 11 | PRIMARY KEY | Unique identifier for each user. |
| username | VarChar | 50 | NOT NULL, UNIQUE | The username chosen by the user. |
| password | VarChar | 100 | NOT NULL | The hashed password of the user. |
| email | VarChar | 30 | NOT NULL, UNIQUE | User's email address. |
| first\_name | VarChar | 30 |  | User's first name |
| last\_name | VarChar | 30 |  | User's last name |
| birthday | Date | 8 |  | User’s birthday |
| phone\_number | VarChar | 20 | Optional | User's contact phone number. |
| address | Text |  | Not Null | User's shipping address. |
| role\_id | INT | ‘ | FOREIGN KEY REFERENCES roles(role\_id) | The role of the user (either customer or admin). |
| created\_at | Timestamp |  | DEFAULT CURRENT\_TIMESTAMP | Date and time the user account was created. |
| updated\_at | Timestamp |  |  | Date and time the user account was updated. |

**User**

**Roles**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| role\_id | INT |  | PRIMARY KEY | Unique identifier for roles |
| role\_name | ENUM |  | Not Null | Role name(‘Customer’, ‘Admin’) |

**Products**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| product\_id | VarChar | 15 | PRIMARY KEY | Unique identifier for each product. |
| name | STR | 100 | Not Null | The name of the product. |
| description | Text |  | None | Detailed description of the product. |
| price | Decimal | 10, 2 | Not Null | Price of the product. |
| stock | INT |  | Not Null | Number of items in stock. |
| category\_id | INT | 11 | Foreign Key(Categories) | Identifier for product’s category |
| created\_at | TIMESTAMP |  | Not Null | Product Creation date |
| updated\_at | TIMESTAMP |  | Not Null | Date of latest product update |

**ShoppingCart**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| cart\_id | INT | 11 | PRIMARY KEY | Unique identifier for each cart. |
| user\_id | INT | 11 | FOREIGN KEY (references Users(user\_id)) | ID of the user who owns the cart. |
| product\_id | INT | 11 | FOREIGN KEY (references Users(product\_id)) | ID of the product in the cart. |
| quantity | INT | 11 | NOT NULL | The quantity of the product in the cart. |
| created\_at | TIMESTAMP |  | Current\_timestamp | Date and time the product was added to the cart. |
| updated\_at | TIMESTAMP |  |  | Unique identifier for each cart. |

**Orders**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| order\_id | INT | 11 | PRIMARY KEY (id lang) | Unique identifier for each order. |
| user\_id | INT | 11 | Foreign Key (Users(user\_id)) | ID of the user who placed the order. |
| total\_price | decimal | 10, 2 | Not Null | Total price of the order. |
| order\_status | enum | ‘pending’, ‘shipped’, ‘delivered’ | Not Null | The current status of the order. |
| shipping\_address | text |  | Not Null | Shipping address for the order. |
| order\_date | TIMESTAMP |  |  | Unique identifier for each cart. |

**OrderItems**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| order\_item\_id | INT | 11 | PRIMARY KEY | Unique identifier for each order item. |
| order\_id | INT | 11 | FOREIGN KEY (references Orders(order\_id)) | ID of the related order. |
| product\_id | INT | 11 | FOREIGN KEY (references Products(product\_id)) | ID of the product included in the order. |
| quantity | INT |  | NOT NULL | The quantity of the product ordered. |
| price | Decimal | 10, 2 | NOT NULL | The total price for this product (quantity × price). |
| order\_date | TIMESTAMP |  |  | Unique identifier for each cart. |

**Payments**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| payment\_id | INT | 11 | PRIMARY KEY | Unique identifier for each payment. |
| order\_id | INT | 11 | None | ID of the related order. |
| amount | Decimal | 10, 2 | None | The amount paid. |
| payment\_method | enum | ‘credit card’, ‘paypal’, ‘bank transfer’ | None | The method used to make the payment. |
| payment\_status | enum | ‘pending’, ‘completed’, ‘failed’ | None | The current status of the payment. |
| payment\_date | timestamp |  | DEFAULT  Current\_timestamp | Date and time the payment was made. |

**Reviews**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| review\_id | INT | 11 | PRIMARY KEY  AUTO\_INCREMENT | Unique identifier for each review. |
| product\_id | INT | 11 | FOREIGN KEY (references Products(product\_id)) | The product that was reviewed. |
| user\_id | INT | 11 | FOREIGN KEY (references Users(user\_id)) | The user who submitted the review. |
| rating | INT | 6 | None | User’s rating (between 1 and 5). |
| comment | text |  | optional | The written review by the user. |
| review\_date | timestamp |  | DEFAULT Current\_timestamp | Date and time the review was submitted. |

**Categories**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| FIELD NAME | DATA TYPE | FIELD LENGTH | CONSTRAINT | DESCRIPTION |
| category\_id | INT | 11 | PRIMARY KEY | Unique identifier for each category. |
| category\_name | VARCHAR | 15 | NOT NULL | Name of the product category. |
| parent\_id | INT | 11 |  | Identifier for the parent category (if any) |