### **Data Dictionary**

The data dictionary serves as a single store for details on data, including its origin, intended use, and format. Each table's specifics are succinctly explained and are clear to understand.

Table 5ROLE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| ID | INT | Primary Key | Not Null | Unique ID for the role |
| Name | NVARCHAR(255) |  | Not Null | Name of the role |

Table 5 shows the Role table shows the various roles within the system, each uniquely identified by an ID and associated with a specific name. This table provides a foundational framework for defining user roles, contributing to access control and privilege management across the system.

Table 6USER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **User** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| Id | INT | Primary Key | Not Null | Unique ID for the user |
| DepartmentId | INT |  | Not Null | ID of the associated department |
| RatingId | INT |  | Null | ID of the associated rating |
| FirstName | VARCHAR(MAX) |  | Null | First name of the user |
| LastName | VARCHAR(MAX) |  | Null | Last name of the user |
| Password | VARCHAR(MAX) |  | Not Null | Password for user authentication |
| Email | VARCHAR(MAX) |  | Not Null | Email address of the user |
| PhoneNumber | VARCHAR(MAX) |  | Null | Phone number of the user |
| Gender | VARCHAR(MAX) |  | Null | Gender of the user |
| ShopName | VARCHAR(MAX) |  | Null | Name of the user's shop |
| Address | VARCHAR(MAX) |  | Null | Address of the user |
| Image | VARCHAR(MAX) |  | Null | URL of the user's profile image |
| StudyLoad | VARCHAR(MAX) |  | Null | Study load information for student users |
| BIR | VARCHAR(MAX) |  | Null | Business Identification Number for business users |
| CityPermit | VARCHAR(MAX) |  | Null | City permit for business users |
| SchoolPermit | VARCHAR(MAX) |  | Null | School permit for student users |
| IsActive | BOOL |  | Null | Indicates whether the user is active |
| Role | INT |  | Null | Role of the user (e.g., admin, customer, supplier) |
| IsValidate | BOOL |  | Null | Indicates whether the user is validated |
| ConfirmationCode | VARCHAR(MAX) |  | Null | Code for email confirmation |
| EmailConfirmationToken | VARCHAR(MAX) |  | Null | Token for email confirmation |
| IsEmailConfirmed | BOOL |  | Null | Indicates whether the user's email is confirmed |
| PasswordResetToken | VARCHAR(MAX) |  | Null | Token for password reset |
| ResetTokenExpires | DATETIME |  | Null | Expiry timestamp for password reset token |
| DateCreated | DATETIME |  | Null | Timestamp of user creation |
| DateUpdated | DATETIME |  | Null | Timestamp of last update |

Table 6 shows details about items in users' shopping carts, capturing data such as product IDs, quantities, sizes, and cart associations. This table plays a pivotal role in managing user shopping carts and facilitating smooth order processing.

Table 7DEPARTMENT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Department** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| ID | INT | Primary Key | Not Null | Unique ID for the department |
| NAME | NVARCHAR(255) |  | Not Null | Name of the department |

Table 7 shows the Department table displays distinct organizational units or departments, each represented by a unique ID and corresponding name. By visualizing departmental structures, this table aids in efficient categorization of users and products, supporting streamlined organization-wide operations.

Table 8PRODUCT

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Product** | | | | |  |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |  |
| ProductId | INT | Primary Key | Not Null | Unique ID for the product |  |
| ProductId | INT | Primary Key | Not Null | Unique ID for the product |  |
| SupplierId | INT |  | Not Null | ID of the associated supplier |  |
| ProductTypeId | INT |  | Not Null | ID of the associated product type |  |
| RatingId | INT |  | Not Null | ID of the associated rating |  |
| ProductName | VARCHAR(MAX) |  | Not Null | Name of the product |  |
| Description | VARCHAR(MAX) |  | Not Null | Description of the product |  |
| Category | VARCHAR(MAX) |  | Not Null | Category to which the product belongs |  |
| Image | VARCHAR(MAX) |  | Not Null | Image URL of the product |  |
| FrontViewImage | VARCHAR(MAX) |  | Not Null | Image URL for the front view of the product |  |
| SideViewImage | VARCHAR(MAX) |  | Not Null | Image URL for the side view of the product |  |
| BackViewImage | VARCHAR(MAX) |  | Not Null | Image URL for the back view of the product |  |
| SizeGuide | VARCHAR(MAX) |  | Not Null | Size guide information for the product |  |
| Price | REAL |  | Not Null | Price of the product |  |
| IsActive | BOOL |  | Null | Indicates whether the product is active |  |
| created\_at | DATETIME |  | Null | Timestamp of creation |  |

Table 8 highlights detailed information about each product offered in the system, including data such as supplier IDs, product types, ratings, prices, and images. This table forms the foundation for managing the product catalog.

Table 9CART

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Cart** | | | | |  |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |  |
| ID | INT | Primary Key | Not Null | Unique ID for cart entries |  |
| Id | INT | Primary Key | Not Null | Unique ID for the cart |  |
| SupplierId | INT |  | Not Null | ID of the associated supplier |  |
| UserId | INT |  | Not Null | ID of the associated user |  |
| IsDeleted | BOOL |  | Null | Indicates whether the cart is deleted |  |
| DateCreated | DATETIME |  | Null | Timestamp of creation |  |
| created\_at | DATETIME |  | Null | Timestamp of creation |  |

Table 9 illustrates individual shopping carts associated with users, featuring essential information like user IDs, supplier IDs, and creation timestamps. This table serves as a central component for tracking and managing user-specific shopping carts within the system.

Table 10ORDER

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Order** | | | | |  |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |  |
| Id | INT | Primary Key | Not Null | Unique ID for the order |  |
| UserId | INT |  | Not Null | ID of the associated user |  |
| CartId | INT |  | Not Null | ID of the associated cart |  |
| OrderNumber | VARCHAR(MAX) |  | Null | Unique order number |  |
| ReferenceId | VARCHAR(MAX) |  | Null | Reference ID for the order |  |
| ProofOfPayment | VARCHAR(MAX) |  | Null | Proof of payment for the order |  |
| Total | REAL |  | Null | Total amount of the order |  |
| DateCreated | DATETIME |  | Null | Timestamp of order creation |  |
| DateUpdated | DATETIME |  | Null | Timestamp of last update |  |
| EstimateDate | DATETIME |  | Null | Estimated delivery date |  |
| PaymentType | INT |  | Null | Type of payment for the order |  |
| Status | INT |  | Null | Status of the order (e.g., processing, shipped) |  |
| IsDeleted | BOOL |  | Null | Indicates whether the order is deleted |  |
| created\_at | DATETIME |  | Null | Timestamp of creation |  |

Table 10 demonstrates individual orders placed by users, featuring key details such as user IDs, cart IDs, order numbers, payment details, and order statuses. This table is fundamental for effective order management and tracking.

Table 11CARTITEMS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CartItems** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| Id | INT | Primary Key | Not Null | Unique ID for the cart item |
| ProductId | INT |  | Not Null | ID of the associated product |
| Quantity | INT |  | Not Null | Quantity of the product in the cart |
| SizeQuantityId | INT |  | Not Null | ID of the size quantity of the product |
| IsDeleted | BOOL |  | Null | Indicates whether the item is deleted |
| IsOrdered | BOOL |  | Null | Indicates whether the item is ordered |
| CartId | INT |  | Not Null | ID of the associated cart |
| created\_at | DATETIME |  | Null | Timestamp of creation |

Table 11 shows details about items in users' shopping carts, capturing data such as product IDs, quantities, sizes, and cart associations. This table plays a pivotal role in managing user shopping carts and facilitating smooth order processing.

Table 12RATING

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Rating** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| RatingId | INT | Primary Key | Not Null | Unique ID for the rating |
| UserId | INT |  | Not Null | ID of the associated user |
| ProductId | INT |  | Not Null | ID of the associated product |
| SupplierId | INT |  | Not Null | ID of the associated supplier |
| Value | INT |  | Null | Numeric value representing the rating |
| DateCreated | DATETIME |  | Null | Timestamp of rating creation |
| Role | INT |  | Null | Role of the user providing the rating |
| created\_at | DATETIME |  | Null | Timestamp of creation |

Table 12 records user ratings for products, capturing details like user IDs, product IDs, rating values, and timestamps. It is crucial for evaluating and displaying product ratings.

Table 13PRODUCTDEPARTMENTS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ProductDepartments** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| ProductId | INT |  | Not Null | ID of the associated product |
| DepartmentId | INT |  | Not Null | ID of the associated department |

Table 13 shows the Department table displays distinct organizational units or departments, each represented by a unique ID and corresponding name. By visualizing departmental structures, this table aids in efficient categorization of users and products, supporting streamlined organization-wide operations.

Table 14NOTIFICATION

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Notification** | | | | |  |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |  |
| ID | INT | Primary Key | Not Null | Unique ID for products |  |
| Id | INT | Primary Key | Not Null | Unique ID for the notification |  |
| UserId | INT |  | Not Null | ID of the associated user |  |
| OrderId | INT |  | Not Null | ID of the associated order |  |
| Message | VARCHAR(MAX) |  | Not Null | Notification message |  |
| DateCreated | DATETIME |  | Not Null | Timestamp of creation |  |
| DateUpdated | DATETIME |  | Not Null | Timestamp of last update |  |
| IsRead | BOOL |  | Not Null | Indicates whether the notification is read |  |
| UserRole | INT |  | Not Null | Role of the user associated with the message |  |
| created\_at | DATETIME |  | Not Null | Timestamp of creation |  |

Table 14 presents a record of notifications sent to users concerning their orders, including critical details such as user IDs, order IDs, message content, and notification statuses. This table is integral for keeping users informed about important events related to their orders.

Table 15SIZEQUANTITIES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SizeQuantities** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| Id | INT | Primary Key | Not Null | Unique ID for the size quantity |
| ProductId | INT |  | Not Null | ID of the associated product |
| Size | VARCHAR(MAX) |  | Not Null | Size information |
| Quantity | INT |  | Not Null | Quantity available for the size |
| created\_at | DATETIME |  | Not Null | Timestamp of creation |

Table 15 contains information about available sizes and quantities for products, associating size information with specific products and contributing to inventory management and order fulfillment.

Table 16PRODUCT TYPES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ProductTypes** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| ProductTypeId | INT | Primary Key | Not Null | Unique ID for the product type |
| Product\_Type | VARCHAR(MAX) |  | Not Null | Type or category of the product |

Table 16 defines various types or categories of products, associating a unique ID with each product type and facilitating the organized classification of products.

Table 17ODER ITEMS

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **OrderItems** | | | | |
| **Field Name** | **Data Type** | **Key** | **Not Null/Null** | **Description** |
| Id | INT | Primary Key | Not Null | Unique ID for the order item |
| OrderId | INT |  | Not Null | ID of the associated order |
| ProductId | INT |  | Not Null | ID of the associated product |
| Quantity | INT |  | Not Null | Quantity of the product in the order |
| SizeQuantityId | INT |  | Not Null | ID of the size quantity of the product |
| created\_at | DATETIME |  | Null | Timestamp of creation |

Table 17 illustrates information about individual items within an order, encompassing details like order IDs, product IDs, quantities, and sizes. This table is crucial for tracking and managing the items included in each order.