**Data Design**

1. Staff

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| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| Staff\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID of every staff |
| Staff\_Email | varchar(100) | Primary Key | Staff’s email |
| Staff\_Name | varchar(100) |  | Staff’s name |
| Staff\_FirstLogin | boolean |  | Determine first login of user and ask them to change a new password |
| Staff\_Password | varchar(20) |  | Staff’s hashed password |
| Staff\_Role | char(1) |  | Role as staff or admin |
| Staff\_LastLogin | timestamp |  | Date and time where staff last login |
| Staff\_Created | timestamp |  | Date and time where staff account is created |

1. User

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| User\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID of every user |
| User\_Name | varchar(100) |  | User’s name |
| User\_Email | varchar(100) | Primary Key | User’s email |
| User\_Password | varchar(20) |  | User’s hashed password |
| User\_PhoneNo | varchar(20) |  | User’s phone number |
| User\_Address | text |  | User’s Birthday |
| User\_Created | timestamp |  | Date and time where user account is created |
| User\_Postal | varchar(10) |  | User’s postal code for delivery purpose |
| User\_State | varchar(20) |  | User’s state for delivery purpose |

1. Item

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| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| Item\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID of every item |
| Item\_Name | varchar(255) | Primary Key | Item’s name |
| Item\_Price | decimal(7,2) |  | Item’s price |
| Item\_Desp | text |  | Item’s description |
| Item\_Size | varchar(50) |  | Item’s size |
| Item\_Cat | varchar(20) |  | Item’s category |
| Item\_Image | blob |  | Item’s preview image |
| Item\_Tag | varchar(20) |  | Item’s tag such as “Sales” or “New” |
| Item\_Status | tinyint(1) |  | Item’s status, whether it is available for sale or not |

1. Stock

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| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| Stock\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID of every stock |
| Item\_ID | int(11) |  | Item’s ID which the stock belongs to |
| Item\_Size | varchar(11) |  | Item’s size |
| Stock\_Quan | int(11) |  | Stock’s quantity been added |

1. Orders

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| Order\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID of every order |
| User\_ID | int(11) |  | User’s ID which the order belongs to |
| Order\_ItemID | int(11) |  | Item’s ID in current order |
| Order\_ItemSize | varchar(5) |  | Item’s size in current order |
| Order\_ItemQuan | int(11) |  | Item’s quantity in current order |
| Order\_Status | varchar(20) |  | Whether the order is still processing, delivering or received |
| Order\_Review | tinyint(1) |  | Check if current order has written its review |
| Order\_DateTime | timestamp |  | Date and time when the order is placed |
| Order\_perOrderID | int(11) |  |  |

1. Perorder

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| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| perOrder\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID for every orders group |
| perOrder\_ConStaffID | varchar(11) |  | Staff’s ID of staff that confirm the order |
| perOrder\_ConDateTime | timestamp |  | Date and time when order is confirmed |
| perOrder\_TrackNo | varchar(100) |  | Tracking number for delivered items |

1. Cart

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| Cart\_ID | int(11) | Primary Key, AUTO\_INCREMENT | Unique ID of every cart of users |
| User\_ID | int(11) |  | User’s ID which the cart belongs to |
| Cart\_ItemID | int(11) |  | Item’s ID in current cart |
| Cart\_ItemQuan | int(11) |  | Item’s quantity in current cart |
| Cart\_ItemSize | varchar(5) |  | Item’s size in current cart |
| Cart\_DateTime | timestamp |  | Date and time when the item is added to cart |

1. Review

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| --- | --- | --- | --- |
| **Field Name** | **Type** | **Contraint Type** | **Description** |
| Rv\_ID | text | Primary Key, AUTO\_INCREMENT | Unique ID of every review and rating |
| Rv\_OrderID | int(11) | Primary Key | Item’s ID which the review and rating belongs to |
| User\_ID | int(11) |  | User’s ID which the review and rating belongs to |
| Rv\_Txt | text |  | Review text from user |
| Rv\_Rating | char(1) |  | Rating by user from 1 star to 5 stars |
| Rv\_DateTime | timestamp |  | Date and time when the rating and review is submitted |
| Rv\_AprvStatus | varchar(20) |  | Approval status of review and rating |