**File Design**

**Table 01: Admin-Table**

Primary Key= Admin-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| Admin-Id | Number | 5 | Admin Id |
| a-user-name | Text | 10 | Admin user name |
| a-password | Text | 10 | Admin password |
| a-first-name | Text | 15 | Admin first name |
| a-last-name | Text | 20 | Admin last name |
| a-email | Text | 20 | Admin email |
| a-tel | Text | 10 | Admin telephone number |
| admin-job-title | text | 10 | Admin job title |
| Record Size | 100 | | |

**Table 02: Manage-User-Table**

Primary Key= M-U-Id

Foreign Key = Admin-Id, User-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| M-U-Id | Number | 5 | Manage user Id |
| Admin-Id | Number | 5 | Admin Id |
| User-Id | Number | 5 | User Id |
| action | Text | 10 | Action performed |
| date-time | Date |  | Date and time |
| Record Size | 25 | | |

**Table 03: Customer-Table**

Primary Key = C-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| C-Id | Number | 5 | Customer id |
| c-user-name | Text | 10 | Customer user name |
| c-password | Text | 10 | Customer password |
| c-email | Text | 20 | Customer email |
| c-first-name | Text | 15 | Customer first name |
| c-last-name | Text | 20 | Customer last name |
| street-no | Text | 5 | Street no |
| street-name | Text | 20 | Street name |
| province | Text | 20 | province |
| city | Text | 20 | city |
| c-profile-picture | Text | 50 | Customer profile picture url |
| customer-tel | Text | 10 | Customer telephone number |
| Is-customer-2FA-enabled | Boolean |  | Is customer two factor authentication enabled |
| Record Size | 205 | | |

**Table 04: Supplier-Table**

Primary Key = S-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| S-Id | Number | 5 | Supplier id |
| s-user-name | Text | 10 | Supplier user name |
| s-tel | Text |  | Supplier telephone number |
| s-email | Text | 20 | Supplier email |
| s-password | Text | 10 | Supplier password |
| s-first-name | Text | 15 | Supplier first name |
| s-last-name | Text | 20 | Supplier last name |
| company-name | Text | 30 | Company name |
| supplier-company-size | Text | 20 | Company size |
| s-street-no | Text | 5 | Supplier Street number |
| s-street-name | Text | 15 | Supplier Street name |
| s-city | Text | 15 | Supplier city |
| s-province | Text | 15 | Supplier province |
| Is-supplier-2FA-enabled | Boolean |  | Is supplier two factor authentication enabled |
| Record Size | 180 | | |

**Table 05: Employee-Table**

Primary Key = E-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| E-Id | Number | 5 | Employee id |
| e-user-name | Text | 10 | Employee user name |
| e-password | Text | 10 | Employee password |
| job-role | Text | 15 | Job role |
| e-first-name | Text | 15 | Employee first name |
| e-last-name | Text | 20 | Employee last name |
| e-tel | Text | 10 | Employee telephone number |
| e-email | Text | 20 | Employee Email |
| Record Size | 105 | | |

**Table 06: Product-Table**

Primary Key = P-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| P-Id | Number | 5 | Product Id |
| category | Text | 15 | Product category |
| p-img | Text | 50 | Product image |
| p-name | Text | 15 | Product name |
| p-price | Number | 6 | Product price |
| p-description | Text | 200 | Product description |
| Record Size | 291 | | |

**Table 07: Shopping-Cart-Table**

Primary Key = S-C-Id

Foreign Key = C-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| S-C-Id | Number | 5 | Shopping cart id |
| C-Id | Number | 5 | Customer id |
| sc-created-date | date |  | Shopping cart created date |
| sc-last-updated-date | date |  | Shopping cart las updated date |
| sc-status | Text | 10 | Shopping cart status |
| sc-total-items | Number | 2 | Shopping cart total items count |
| sc-total-price | Number | 6 | Shopping cart total price |
| Record Size | 28 | | |

**Table 08: Shopping-cart-item-table**

Primary Key = S-C-I-Id

Foreign Key = S-C-Id, P-I-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| S-C-I-Id | Number | 5 | Shopping cart item id |
| S-C-Id | Number | 5 | Shopping cart id |
| P-I-Id | Number | 5 | Product item id |
| S-C-I-qty | Number | 3 | Shopping cart item quantity |
| Record Size | 18 | | |

**Table 09: Product-item-table**

Primary Key = P-I-Id

Foreign Key = P-Id, S-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| P-I-Id | Number | 5 | Product item id |
| P-Id | Number | 5 | Product id |
| S-Id | Number | 5 | Supplier id |
| p-i-img | Text | 50 | Product item image |
| size | Text | 10 | Product item size |
| color | Text | 10 | Product item color |
| material | Text | 15 | Product item material |
| qty | Number | 4 | Product item quantity |
| p-i-price | Number | 6 | Product item price |
| Record Size | 110 | | |

**Table 10: Trade-in-item-table**

Primary Key = T-I-Id

Foreign Key = P-I-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| T-I-Id | Number | 5 | Trade in item id |
| P-I-Id | Number | 5 | Product item id |
| received-date | date |  | Received date |
| t-value | Number | 5 | Trade in item value |
| t-status | Text | 10 | Trade in item status |
| t-condition | Text | 10 | Trade in item condition |
| manufacturer | Text | 20 | Trade in item manufacture |
| Record Size | 55 | | |

**Table 11: Promotion-table**

Primary Key = Promo-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| Promo-Id | Number | 5 | Promotion id |
| promo-description | Text | 50 | Promotion description |
| promo-name | Text | 20 | Promotion name |
| discount-rate | Number | 3 | Discount rate |
| start-date | date |  | Start date |
| end-date | date |  | End date |
| Record Size | 83 | | |

**Table 12: Returned-item-table**

Primary Key = R-I-Id

Foreign Key = O-I-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| R-I-Id | Number | 5 | Returned item id |
| O-I-Id | Number | 5 | Order item id |
| r-condition | Text | 10 | Returned item condition |
| returned-date | date |  | Item returned date |
| reason | Text | 15 | Returned reason |
| refund-status | Text | 15 | Refund status |
| refund-amount | Number | 5 | Refund amount |
| Record Size | 55 | | |

**Table 13: Order-item-table**

Primary Key = O-I-Id

Foreign Key = P-I-Id, O-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| O-I-Id | Number | 5 | Order item id |
| P-I-Id | Number | 5 | Product item id |
| O-Id | Number | 5 | Order id |
| o-i-qty | Number | 3 | Oder item quantity |
| o-i-price | Number | 5 | Order item price |
| Record Size | 23 | | |

**Table 14: Order-table**

Primary Key = O-Id

Foreign Key = S-M-Id, P-M-Id, C-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| O-Id | Number | 5 | Order id |
| C-Id | Number | 5 | Customer id |
| S-M-Id | Number | 5 | Shipping method id |
| P-M-Id | Number | 5 | Payment method id |
| order-date | date |  | Order date |
| order-status | Text | 10 | Order status |
| order-total | Number | 6 | Order total |
| Record Size | 36 | | |

**Table 15: Shipping-method-table**

Primary Key = S-M-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| S-M-Id | Number | 5 | Shipping method id |
| s-m-name | Text | 15 | Shipping method name |
| s-m-price | Number | 4 | Shipping method price |
| Record Size | 24 | | |

**Table 16: Payment-method-table**

Primary Key = P-M-Id

Foreign Key = C-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| P-M-Id | Number | 5 | Payment method id |
| C-Id | Number | 5 | Customer id |
| p-m-type | Text | 15 | Payment method type |
| Is default | Boolean |  | Is default |
| Record Size | 25 | | |

**Table 17: Primary Key = Commssion-Id**

Foreign Key = S-Id, Admin-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| Commssion-Id | Number | 5 | Commission id |
| S-Id | Number | 5 | Supplier id |
| Admin-Id | Number 5 | 5 | Admin id |
| commission-status | Text | 15 | Commission satus |
| Record Size | 30 | | |
| commission-p-method | Text | 10 | Commission paid method |
| commission-date | date |  | Commission date |
| commission-amount | Number | 4 | Commission amount |
| Record Size | 14 | | |

**Table 18: Complaint-table**

Primary Key = Complaint-Id

Foreign Key = C-Id, Admin-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| Complaint-Id | Number | 5 | Complaint id |
| C-Id | Number | 5 | Customer id |
| Admin-Id | Number | 5 | Admin id |
|  |  |  |  |
| complaint-topic | Text | 20 | Complaint topic |
| complaint-type | Text | 15 | Complaint type |
| complaint-description | Text | 100 | Complaint description |
| complaint-status | Text | 15 | Complaint status |
| complaint-submit-date | date |  | Complaint submitted date |
| reviewed-date | date |  | Complaint reviewed date |
| Record Size | 165 | | |

**Table 19: Customer-review-table**

Primary Key = C-R-Id

Foreign Key = C-Id, O-I-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| C-R-Id | Number | 5 | Customer review id |
| C-Id | Number | 5 | Customer id |
| O-I-Id | Number | 5 | Order item id |
| rating-value | Number | 5 |  |
| review-comment | Text | 100 | Review comment |
| Record Size | 120 | | |

**Table 20: Supplier-Product-Item-table**

Primary Key = S-P-I-Id

Foreign Key = Admin-Id, P-I-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| S-P-I-Id | Number | 5 | Supplier Product Item ID |
| Admin-Id | Number | 5 | Admin ID |
| P-I-Id | Number | 5 | Product ID |
| s-operation | Text | 15 | Supplier Operation |
| Record Size | 30 | | |

**Table 21: Admin-Product-table**

Primary Key = A-P-Id

Foreign Key = Admin-Id, P-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| A-P-Id | Number | 5 | Admin Product ID |
| Admin-Id | Number | 5 | Admin ID |
| P-Id | Number | 5 | Product Id |
| a-p-action | Text | 15 | Admin Product Action |
| Record Size | 30 | | |

**Table 22: Product-Promotion-table**

Primary Key = P-Id, Promo-Id

Foreign Key = P-Id, Promo-Id

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Data size** | **Description** |
| P-Id | Number | 5 | Product Id |
| Promo-Id | Number | 5 | Promotion ID |
| Record Size | 10 | | |