ERD and Data Dictionary

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**ERD**:

A picture containing text, receipt

Description automatically generated

**Data dictionary:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **TABLE**: CUSTOMER | | | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Customer\_Number | | number | |  | |  | | PK | | Y |  | 12345 |  |
| First\_Name | | varchar | | 50 | |  | |  | | Y |  | “Bob” |  |
| Last\_Name | | varchar | | 50 | |  | |  | | Y |  | “McKenzie” |  |
| DOB | | date | |  | |  | |  | | Y |  | 1984-01-01 |  |
| Shipping\_Address | | varchar | | 255 | |  | |  | | Y |  | 1760 Finch Ave, North York, Toronto |  |
| Sales\_Rep | | number | |  | |  | | FK | |  |  | 12345 |  |
| TABLE: ORDERS | |  | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | **Required** | **Range** | **Sample Data** | **Notes** |
| Order\_Number | | number | |  | |  | | PK | Y |  | 12345678 |  |
| Date\_Ordered | | date | |  | |  | |  | Y |  | 1984-01-01 |  |
| Comments | | varchar | | 500 | |  | |  |  |  |  |  |
| Store\_Number | | number | |  | |  | | FK | Y |  | 203 |  |
| Customer\_Number | | number | |  | |  | | FK |  |  |  | null = non-member |
| TABLE: RECEIPT | |  | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Receipt\_Number | | number | |  | |  | | PK | | Y |  | 123456789 |  |
| Order\_Number | | number | |  | |  | | FK | | Y |  | 12345678 |  |
| Payment\_Date | | date | |  | |  | |  | | Y |  |  |  |
|  | |  | |  | |  | |  | |  |  |  |  |
| TABLE: WAREHOUSE | | | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Order\_Number | | number | |  | |  | | PK FK | | Y |  | 12345678 |  |
| Product\_ID | | number | |  | |  | | PK FK | | Y |  | 1234567 |  |
| Amount\_Ordered | | number | |  | |  | |  | | Y |  | 8 |  |
| Shipping\_Date | | date | |  | |  | |  | |  |  | 1984-01-01 |  |
| Expected\_Arrival | | date | |  | |  | |  | |  |  | 1984-01-01 |  |
| Status | | number | |  | |  | | FK | |  |  | 1 | 1 = Arrived  2 = Delayed  3 = Cancelled |
|  | |  | |  | |  | |  | |  |  |  |  |
| TABLE: STATUS | |  | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Status | | number | |  | |  | | PK | | Y |  | 1 | 1 = Arrived  2 = Delayed  3 = Cancelled |
| Status\_Def | | varchar | | 10 | |  | |  | | Y |  | Arrived |  |
|  | |  | |  | |  | |  | |  |  |  |  |
| TABLE: PRODUCT | | | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Product\_ID | | number | |  | |  | | PK | | Y |  | 1234567 |  |
| Product\_Desc | | varchar | | 500 | |  | |  | | Y |  | 32" monitor |  |
| UPC | | number | |  | |  | |  | | Y |  | 123456789012 |  |
| Quantity | | number | |  | |  | |  | | Y |  | 777 |  |
| Cost | | decimal | | 10, 2 | |  | |  | | Y | 0-99999999.99 | 30.60 |  |
| MSRP | | decimal | | 10, 2 | |  | |  | | Y | 1-99999999.99 | 59.99 |  |
| TABLE: STORE | | | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Store\_Number | | number | |  | |  | | PK | | Y |  | 203 |  |
| RegionID | | number | |  | |  | | FK | | Y |  | 9 |  |
| Address | | varchar | | 255 | |  | |  | | Y |  | 123 Bestbuy Ave, North York, Toronto |  |
| TABLE: REGION | |  | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| RegionID | | number | |  | |  | | PK | | Y |  | 9 |  |
| Region\_Desc | | varchar | | 50 | |  | |  | | Y |  | North America |  |
| Country | | varchar | | 50 | |  | |  | | Y |  | USA |  |
|  | |  | |  | |  | |  | |  |  |  |  |
| TABLE: EMPLOYEE | | | |  | |  | |  | |  |  |  |  |
| **Column** | | **Data Type** | | **Size, Precision** | | **Default** | | **PK/FK** | | **Required** | **Range** | **Sample Data** | **Notes** |
| Employee\_Number | | number | |  | |  | | PK | | Y |  | 1234 |  |
| Store\_Number | | number | |  | |  | | FK | | Y |  | 203 |  |
| First\_Name | | varchar | | 50 | |  | |  | | Y |  | “Bob” |  |
| Last\_Name | | varchar | | 50 | |  | |  | | Y |  | “McKenzie” |  |
| Role | | varchar | | 50 | |  | |  | | Y |  | Sales executive |  |
| Employment\_Date | | date | |  | |  | |  | | Y |  | 2020-01-01 |  |
| Reports\_To | | number | |  | |  | | FK | | Y |  | 1234 |  |