Christine Romano
SQL Assignment Two
August 15, 2025

EMPLOYEES

Employee_ID (PK)
E_Last_Name
E_First_Name
Zip_Code

DATE TABLE

DATETIME
Year
Month
Day
Time
Day_of_Week
Holiday

(Yes/No column to indicate if the day is a holiday).

ORDER

Order_ID (PK)
Item_Name
Item_ID
Number
Price
Item_Category
   (ex. book, office supplies, toys, gifts, other)
Total_Sale
(total amount sold $)
DATETIME

SALES

Order_ID
Customer_ID
Cashier
(employee ID of cashier)
Salespeople
(employee IDs of any other staff who helped sell this order)
DATETIME

CUSTOMER

Customer_ID (PK)
C_Last_Name
C_First_Name
Zip_Code
Age_Range
Demographics
   (may include several columns of demographic information, depending on bookstore needs).
Order_ID

BOOK

ISBN (PK)
Item_ID (PK)
Name
Author
Publisher
Genre
Format (ex. hardcover, paperback, electronic)
Price

EMPLOYEES

Employee_ID (PK)
E_Last_Name
E_First_Name
Zip_Code

SHIFTS

Employees_Working
(Employee IDs of all employees on shift)
DATETIME
Year
Month
Day
Time
(composite key)
Shift_Type
(morning or evening)

DATE TABLE

DATETIME
Year
Month
Day
Time
(composite key)
Day_of_Week
Holiday
(Yes/No column to indicate if the day is a holiday).

ORDER

Order_ID (PK)
Item_Name
Item_ID
Number
Price
Item_Category
(ex. book, office supplies, toys, gifts, other)
Total_Sale
(total amount sold $)
DATETIME

SALES

Order_ID
Customer_ID
Cashier
(employee ID of cashier)
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CUSTOMER ADDRESS

Customer_ID (PK)
C_Last_Name
C_First_Name
Street_Line_One
Street_Line_Two
City
State_or_Province
Country
Zip_Code
Date_of_Data_Collection_Year
Date_of_Data_Collection_Month
Date_of_Data_Collection_Day

Slowly Changing Dimension Type 1: This type of table will be updated regularly and new data will override existing data.

Slowly Changing Dimension Type 2: This type of table will be updated regularly and new data will be added as a new row in addition to existing data.

Both tables will share the same architecture. However, their relationships with other tables may change. In SCD Type 1, all of the non-customer ID columns will have a 1:1 relationship with their counterparts in other tables because only one set of data is allowed per customer. In SCD Type 2, all of these columns could have a 1:1 or 1:many relationship with other tables because now many addresses, names, etc. may be available for each customer in the "Customer Address" table.