Logan Samples

04/30/2025

DDL Examples

```sql
CREATE TABLE Stores (
    StoreKey INT PRIMARY KEY,
    Country VARCHAR(100),
    State VARCHAR(100),
    SquareMeters DECIMAL(10,2),
    OpenDate DATE
);
```

```sql
CREATE TABLE EXCHANGE_RATES (
    Date DATE,
    Currency CHAR(3),
    ExchangeRate DECIMAL(10, 4),
    PRIMARY KEY (Date, Currency)
);
```
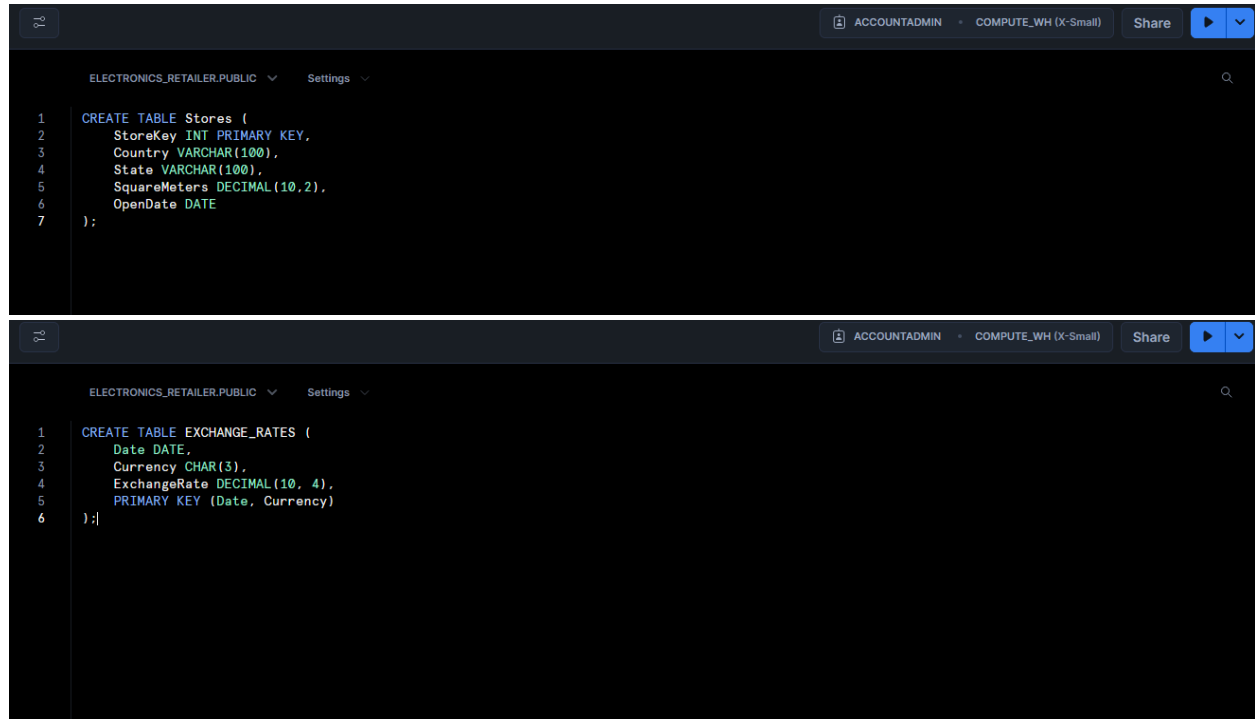
The exchange rates table does not have a natural primary key. To prevent entries that have the same date and currency type, I needed to include a composition key. This key ensures that no duplicate entries for a currency on an existing date can occur.

ELECTRONICS_RETAILER.PUBLIC   Settings   Code Versions

```sql
CREATE TABLE CUSTOMERS (
    CustomerKey INT PRIMARY KEY,
    Gender VARCHAR(10),
    Name VARCHAR(100),
    City VARCHAR(100),
    State_Code VARCHAR(10),
    State VARCHAR(100),
    Zip_Code VARCHAR(10),
    Country VARCHAR(100),
    Continent VARCHAR(100),
    Birthday DATE
);
```

Results   **Chart**

status
Table CUSTOMERS successfully created.

Query Details

Query duration   148ms

Rows   1
Query ID   01bc1be4-0002-02b2-0...

Show more

status
100% filled   Ask Copilot

ELECTRONICS_RETAILER.PUBLIC   Settings

```sql
CREATE TABLE Products (
    ProductKey INT PRIMARY KEY,
    ProductName VARCHAR(255),
    Brand VARCHAR(255),
    Color VARCHAR(100),
    UnitCostUSD DECIMAL(10,2),
    UnitPriceUSD DECIMAL(10,2),
    SubcategoryKey INT,
    Subcategory VARCHAR(100),
    CategoryKey INT,
    Category VARCHAR(100)
);
```

ELECTRONICS_RETAILER.PUBLIC   Settings

```sql
CREATE TABLE Sales (
    OrderNumber INT,
    LineItem INT,
    OrderDate DATE,
    DeliveryDate DATE,
    CustomerKey INT,
    StoreKey INT,
    ProductKey INT,
    Quantity INT,
    CurrencyCode CHAR(3),
    PRIMARY KEY (OrderNumber, LineItem)
);

ALTER TABLE Sales
ADD CONSTRAINT FK_CUSTOMERS FOREIGN KEY (CustomerKey) REFERENCES Customers(CustomerKey);

ALTER TABLE Sales
ADD CONSTRAINT FK_Stores FOREIGN KEY (StoreKey) REFERENCES Stores(StoreKey);

ALTER TABLE Sales
ADD CONSTRAINT FK_Products FOREIGN KEY (ProductKey) REFERENCES Products(ProductKey);
```

At first glance, order number would seem to be a natural key, but an order can contain multiple which is represented with line items. A composition key ensures that there are no duplicate line items within an order that are created. The foreign key constraints ensure referential integrity between tables.