-- make a new database

CREATE DATABASE TemporalTables;

GO

USE TemporalTables;

GO

-- create temporal table to store products

CREATE TABLE dbo.Products (

ProductID int IDENTITY(1,1) PRIMARY KEY,

ProductName nvarchar(50) NOT NULL,

ProductPrice smallmoney NOT NULL,

ValidFrom datetime2 (2) GENERATED ALWAYS AS ROW START,

ValidTo datetime2 (2) GENERATED ALWAYS AS ROW END,

PERIOD FOR SYSTEM\_TIME (ValidFrom, ValidTo)

)

WITH (SYSTEM\_VERSIONING = ON);

GO

-- insert values into the products table

INSERT dbo.Products (ProductName, ProductPrice)

VALUES ('Mixed Nuts',3.99),

('Shelled Peanuts',5.49),

('Roasted Almonds',7.29);

GO

-- see the current state of the data

SELECT \* FROM dbo.Products;

GO

-- get the current UTC date and time

SELECT GETUTCDATE();

GO

-- update a price in the products table

UPDATE dbo.Products

Set ProductPrice = '6.99'

WHERE ProductName = 'Roasted Almonds';

GO

-- see the current state of the data

SELECT \* FROM dbo.Products;

GO

-- see the historic pricing as of a few moments ago

SELECT \* FROM dbo.Products

FOR SYSTEM\_TIME

AS OF '<insert date and time here>';

GO

-- see the full pricing history of the Roasted Almonds product

SELECT \* FROM dbo.Products

FOR SYSTEM\_TIME

BETWEEN '2000-01-01' AND '9999-12-31'

WHERE ProductName = 'Roasted Almonds'

ORDER BY ValidFrom;

GO

-- delete database

USE tempdb;

GO

DROP DATABASE TemporalTables;

GO