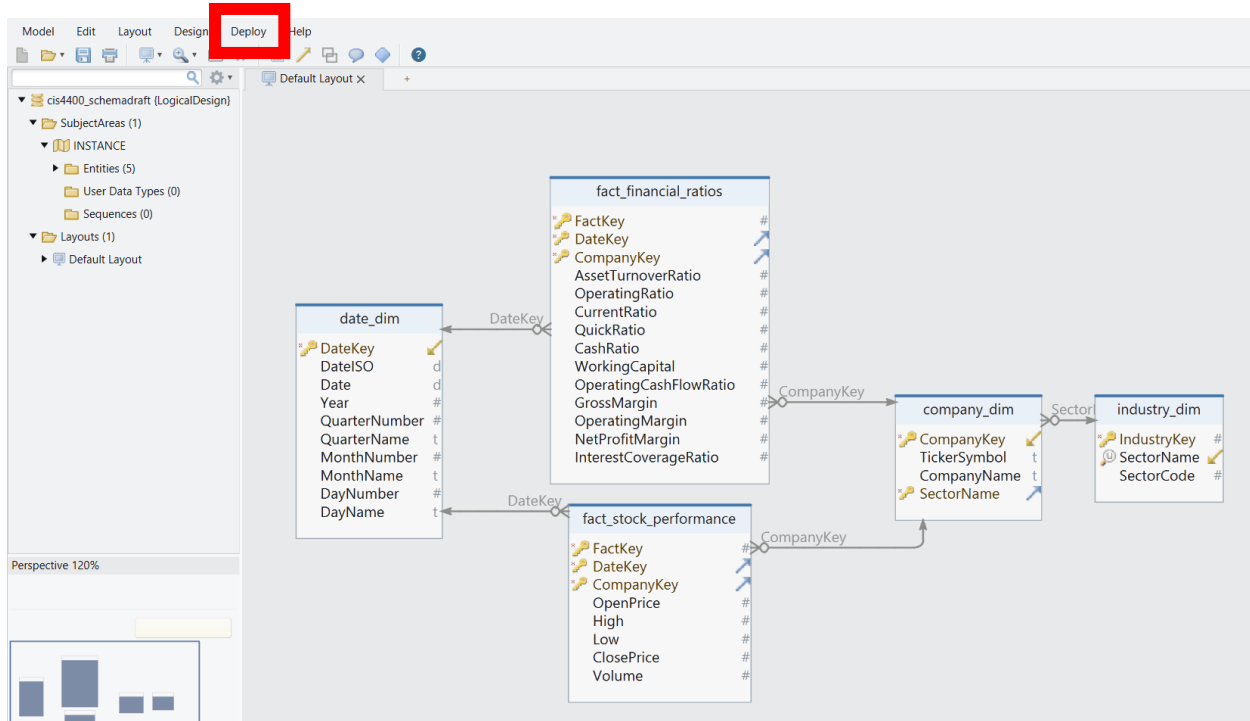
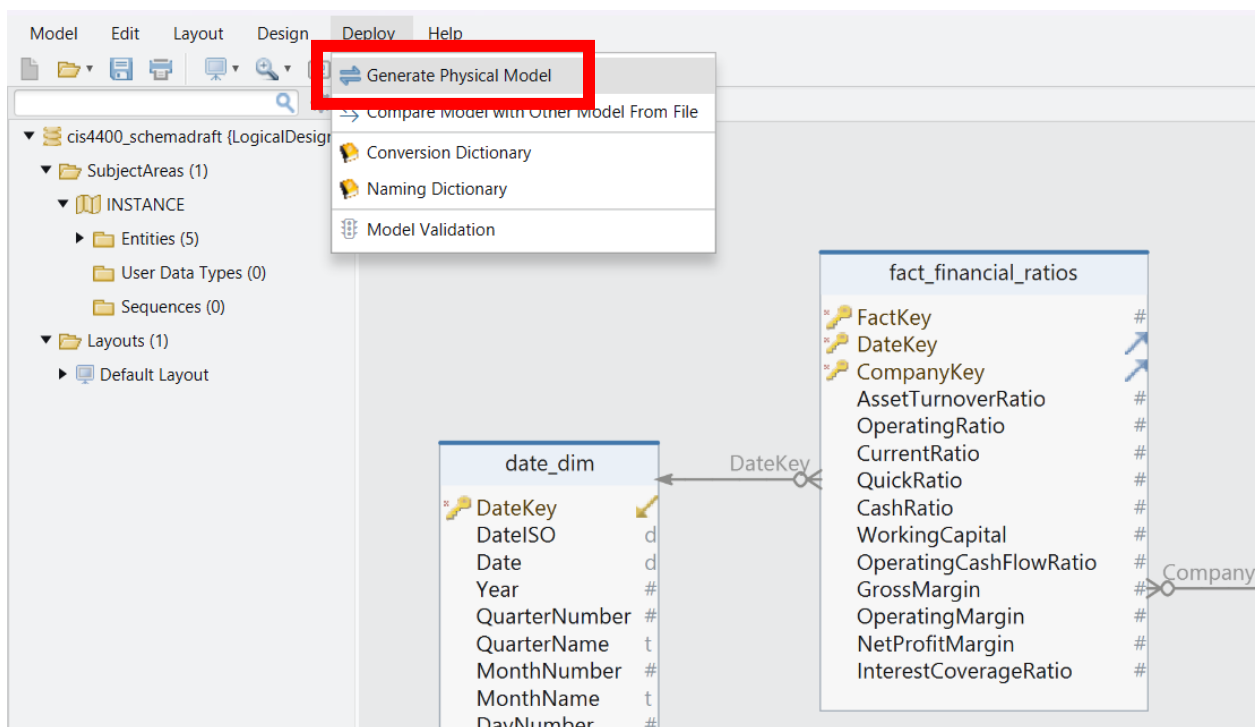


## How-to: Generate SQL Schema Script

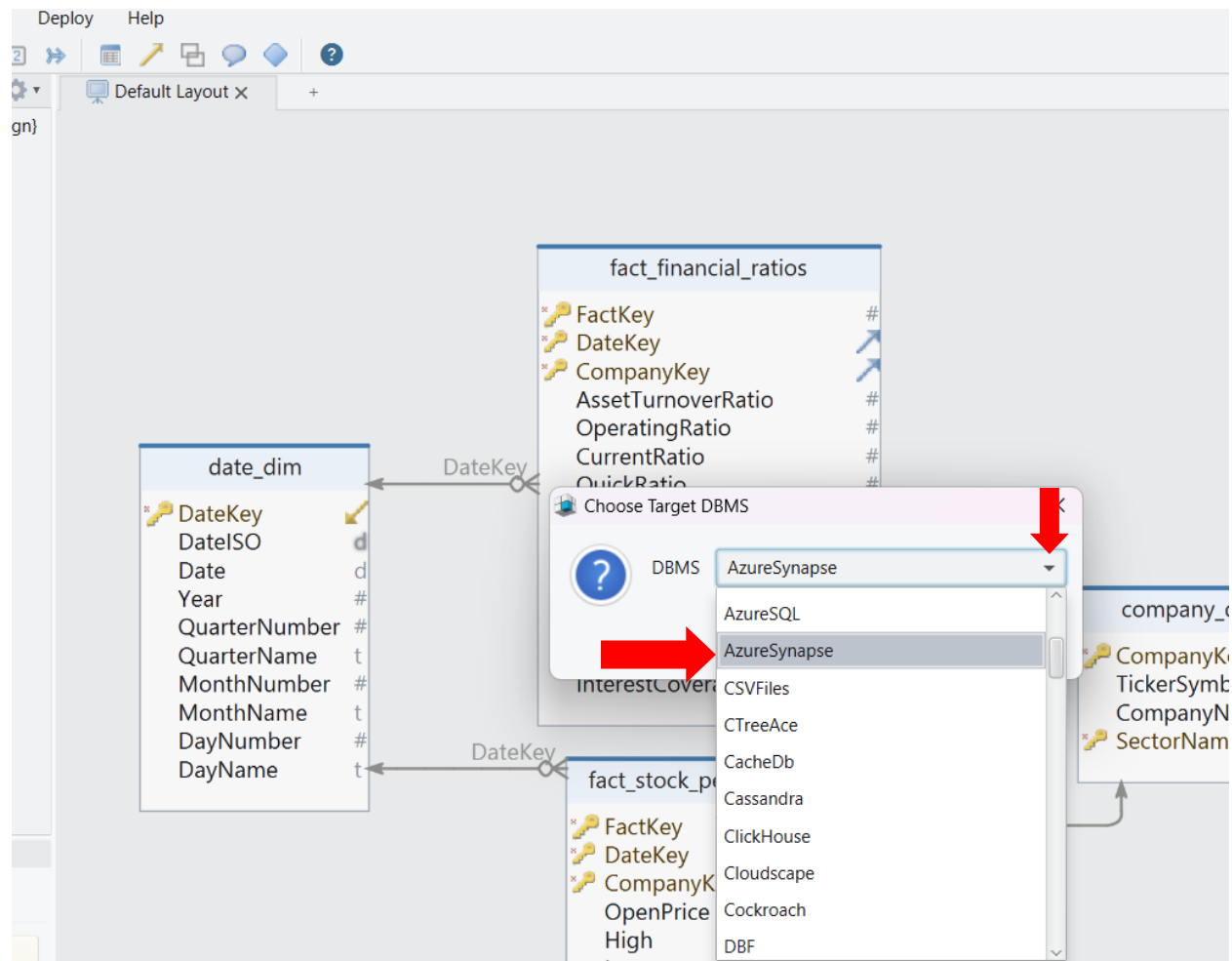
Start from the Logical Design of your Schema – Default Layout. Then, in the top tabs, select “Deploy”.



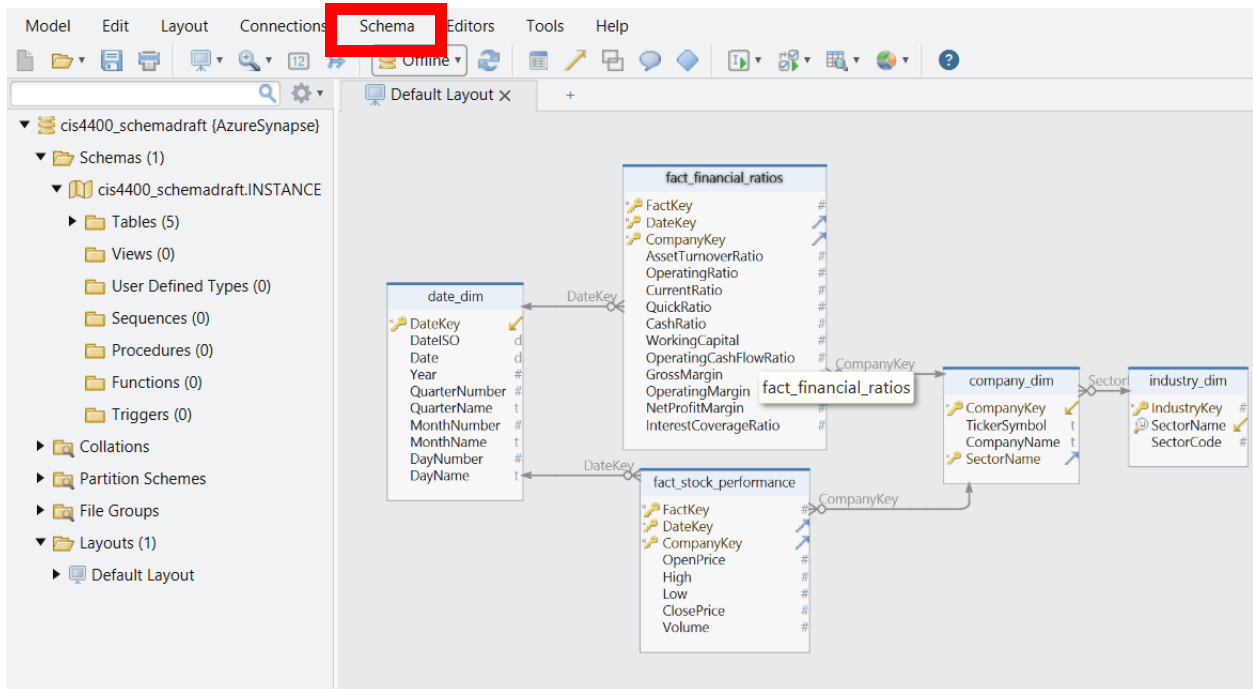
Next, click “Generate Physical Model”.



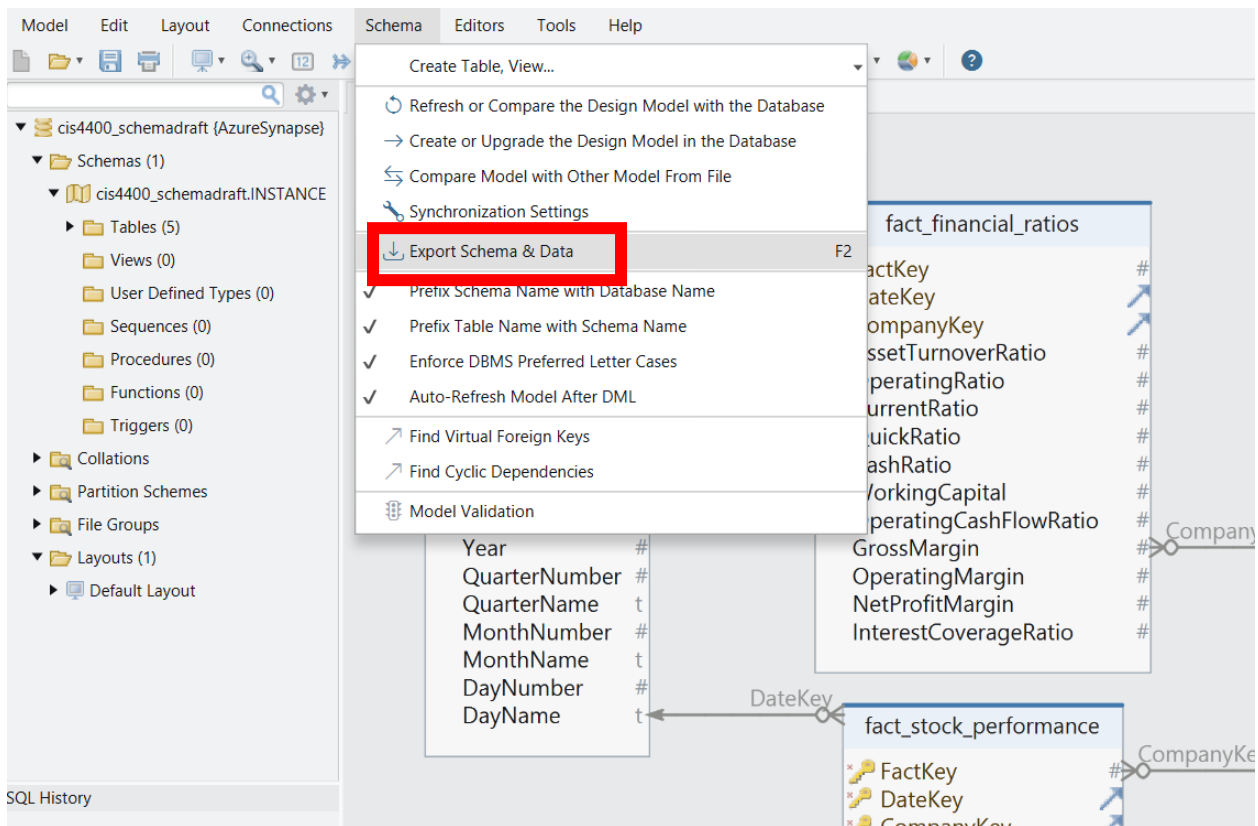
A new window will pop up prompting you to select a DBMS. Select “AzureSynapse” and click OK.

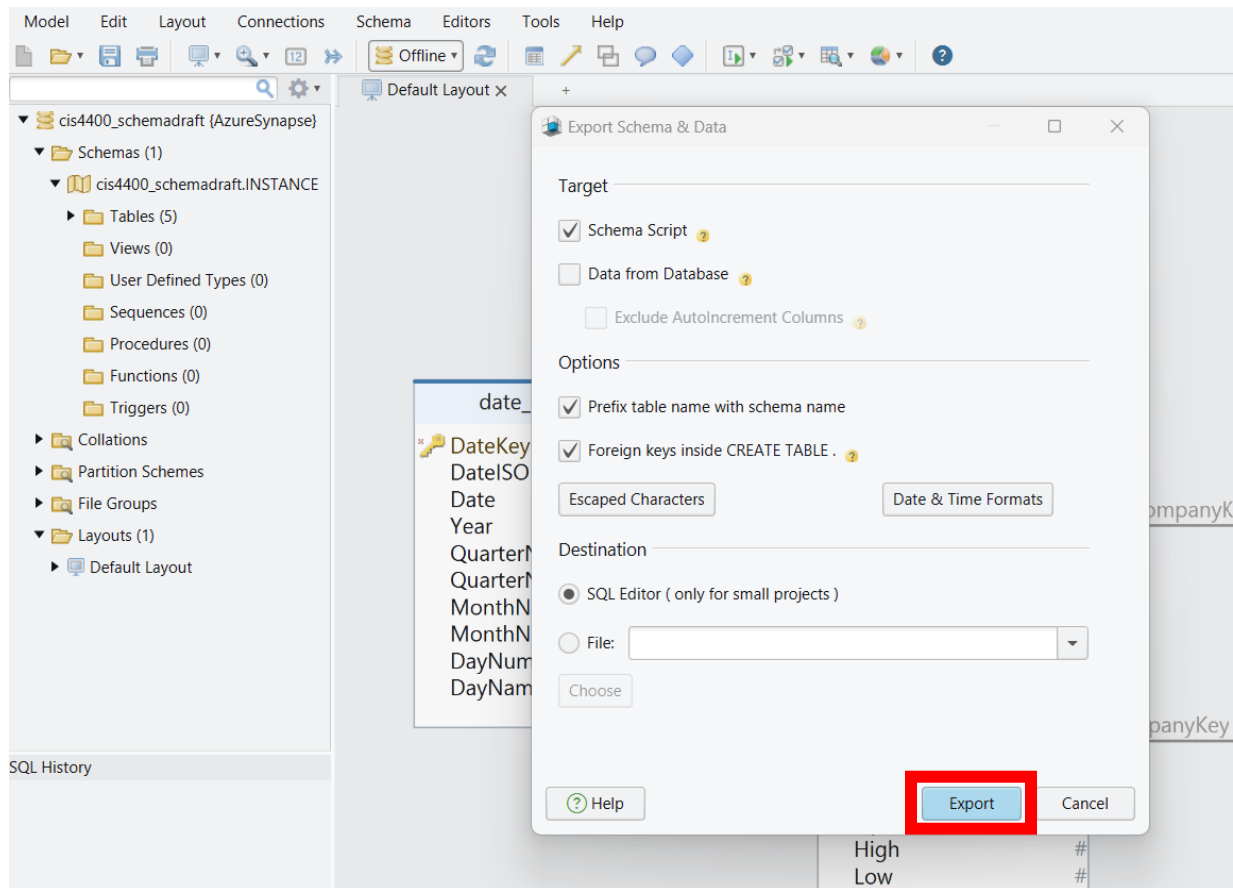


In a new window you will still see your layout, but with new tabs. In the top panel, select the “Schema” tab.

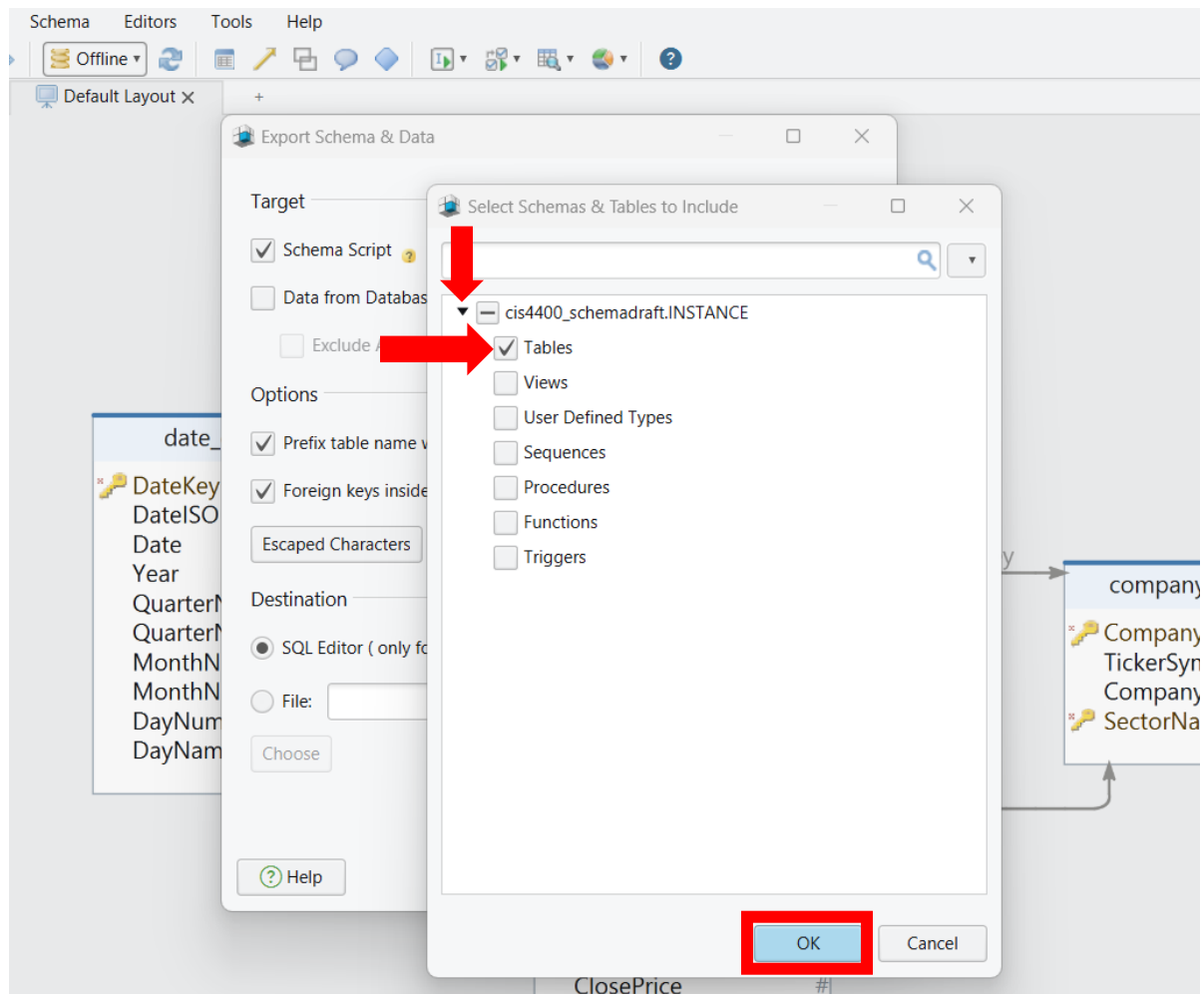


From the selection, click on “Export Data & Schema”. You may select foreign keys inside create table, which is optional. Then “Export”.





Afterwards, in a new window “Select Schemas & Tables to Include”, expand your instance, and check the box next to “Tables”. Click OK.



TA-DA!

The SQL editor will pop up – expand it. Copy the code or save the file.

The screenshot displays the SQL Server Enterprise Designer interface. On the left, the 'cis4400\_schemadraft (AzureSynapse)' project is expanded, showing a hierarchy of Schemas (1), Tables (5), Views (0), User Defined Types (0), Sequences (0), Procedures (0), Functions (0), Triggers (0), Collations, Partition Schemes, File Groups, and Layouts (1). The main area shows a diagram of the 'fact\_financial\_ratios' table, which is linked to the 'date\_dim' table via a 'DateKey' relationship. The 'fact\_financial\_ratios' table has columns: FactKey, DateKey, CompanyKey, AssetTurnoverRatio, OperatingRatio, CurrentRatio, QuickRatio, and CashRatio. The 'date\_dim' table has columns: DateKey, DateISO, Date, Year, QuarterNumber, QuarterName, MonthNumber, and MonthName. The SQL Editor window is open, showing the following SQL code:

```
1 IF DB_ID('cis4400_schemadraft') IS NULL EXECUTE('CREATE DATABASE [cis4400_schemadraft];');
2 GO
3
4 USE [cis4400_schemadraft];
5 GO
6
7 IF SCHEMA_ID('INSTANCE') IS NULL EXECUTE('CREATE SCHEMA [INSTANCE];');
8 GO
9
10 CREATE TABLE cis4400_schemadraft.INSTANCE.date_dim (
11     DateKey          int          NOT NULL,
12     DateISO          date         NULL,
13     Date             date         NULL,
14     Year             int          NULL,
15     QuarterNumber    int          NULL,
16     QuarterName      varchar(100) NULL,
17     MonthNumber      int          NULL,
18     MonthName        varchar(100) NULL,
```