# Case study task: Part 3 – Table creation

## Instructions

1. Using the OLAP model and the source to target mapping, start creating tables for each of the entities in your design.
2. Consider appropriate data types for your attributes and the length of any strings.
3. Ensure all your tables have primary keys. Consider what you’ll use for the primary key for each table (surrogate key or original key from the source data)
4. Include the metadata CreateDate and UpdateDate fields in each table
5. Add safeguards into your query (drop table if exists ….. ; delete from … )
6. Annotate and save your query locally as you write it
7. We will also need to create a Date Dimension table. Last time the instructor provided a query for this but this time we need to add it to the Database in SQL Server. Our dimDate table should have:

* Date\_Key (int, set Identity Specification by using the identity(1,1) command, this will be the Primary key of the table)
* Date (datetime, not null)
* Day (int, not null)
* Week (int, not null)
* Month (int, not null)
* Quarter (int, not null)
* Year (int, not null)
* CreateDate (datetime, not null)
* UpdateDate (datetime, not null)

1. Add foreign key constraints to inner Dimension and Fact tables