



2.1 Create the SQL scripts to create the dimensional model tables that have resulted from Exercise 1 of Practical classes, according to the following information:

DimItem Table			
Attribute/Field	Data Type	Width	Null
<b>ItemKey (PK)</b>	int – identity(1,1)	-	No
ItemID	char	11	No
ItemDescription	nvarchar	50	No
CategDescription	nvarchar	50	No
SubCategDescrip	nvarchar	50	No
BrandDescription	nvarchar	50	No
UpmarketFlag	char	1	No
EffectiveDate	datetime	-	No
ExpiredDate	datetime	-	Yes
IsCurrent	nvarchar	3	No

DimCard Table			
Attribute/Field	Data Type	Width	Null
<b>CardKey (PK)</b>	int - identity(1,1)	-	No
CardID	char	11	No
City	nvarchar	50	No
Region	nvarchar	50	No
PostalCode	nvarchar	10	No
CardStartDateKey	int	-	No
Gender	nvarchar	6	No
DateOfBirthKey	int	-	No
MaritalStatus	nvarchar	10	No
NumChildren	tinyint	-	No
YoungestChildren	tinyint	-	No
EffectiveDate	datetime	-	No
ExpiredDate	datetime	-	Yes
IsCurrent	nvarchar	3	No

DimPaymentMethod Table			
Attribute/Field	Data Type	Width	Null
<b>PaymentMethodKey (PK)</b>	int - identity(1,1)	-	No
PaymentMethod	char	2	No
PaymentMethodDescription	nvarchar	20	Yes

DimStore Table			
Attribute/Field	Data Type	Width	Null
<b>StoreKey (PK)</b>	int - identity(1,1)	-	No
StoreID	char	5	No
StoreName	nvarchar	20	Yes

DimDate Table			
Attribute/Field	Data Type	Width	Null
<b>DateKey (PK)</b>	int - identity(1,1)	-	No
FullDate	datetime	-	No
Year	int	-	No
Semester	tinyint	-	No
Quarter	tinyint	-	No
Month	tinyint	-	No
MonthName	nvarchar	10	No
Week	tinyint	-	No
DayNumberOfYear	int	-	No
DayNumberOfMonth	tinyint	-	No
DayNumberOfWeek	tinyint	-	No
DayOfWeek	nvarchar	10	No
Weekend	nvarchar	3	No

DimTime Table			
Attribute/Field	Data Type	Width	Null
<b>TimeKey (PK)</b>	int - identity(1,1)	-	No
FullTime	time	-	No
FullTime_int	int	-	No
Hour	tinyint	-	No
Minute	tinyint	-	No
Second	Tinyint	-	No
Period	nvarchar	10	No
LunchTime	nvarchar	3	No
DinnerTime	nvarchar	3	No

FactSales Table			
Attribute/Field	Data Type	Width	Null
<b>DateKey (PK)</b>	int	-	No
<b>TimeKey (PK)</b>	int	-	No
<b>CardKey (PK)</b>	int	-	No
<b>ItemKey (PK)</b>	int	-	No
<b>StoreKey (PK)</b>	int	-	No
PaymentMethodKey	int	-	No
TransactionID	char	9	No
Quant	tinyint	-	No
Amount	money	-	No
TotalAmount	money	-	No

2.2 Using the proper components, create a Microsoft SQL Server Integration Services ETL Package in order to:

- Create the databases (*data mart* and *staging area*)
- Create the temporary tables (*staging tables*) using the provided scripts
- Create the data mart tables (*dimension tables* and *fact table*) using the scripts created in 2.1
- Extract the data into the temporary tables (*staging tables*)