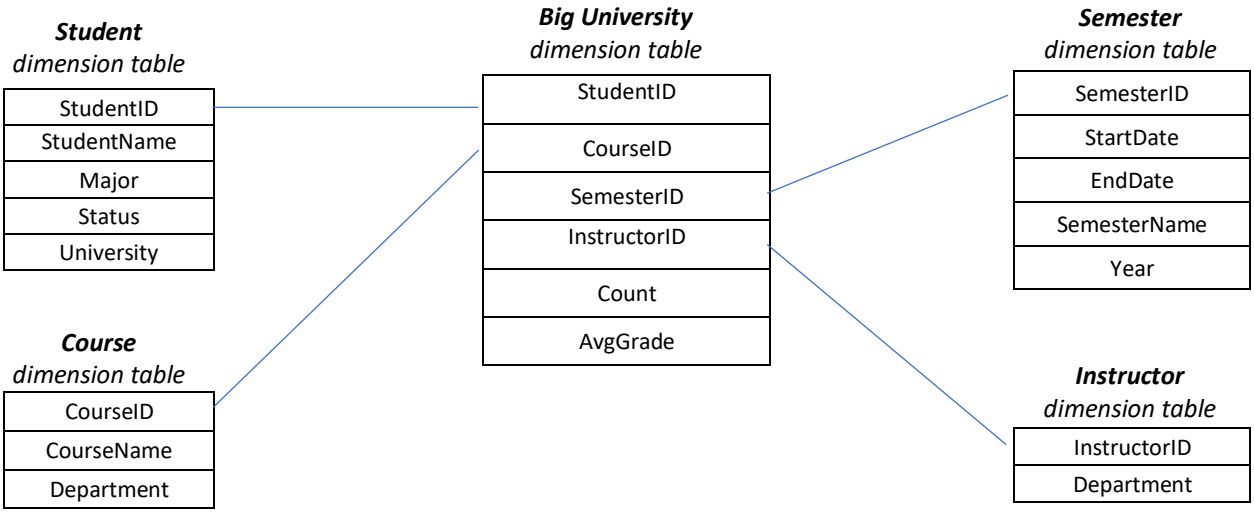
Domas Budrys – Assignment 3 CSCI5080

PART I: Question 1 (Time spent: 1h 45min):

A)



B)

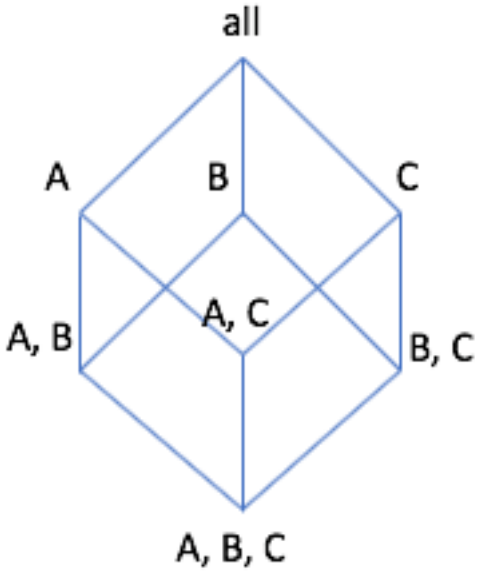
Roll-up on ***Course*** from CourseID to Department
Roll-up on ***Student*** from StudentID to University
Dice on ***Course, Student*** with Department = 'CS' and university = 'Big-University'
Drill-down on ***Student*** from University to StudentName

C)

625 Cuboids

PART I: Question 2 (Time spent: 2h 15min):

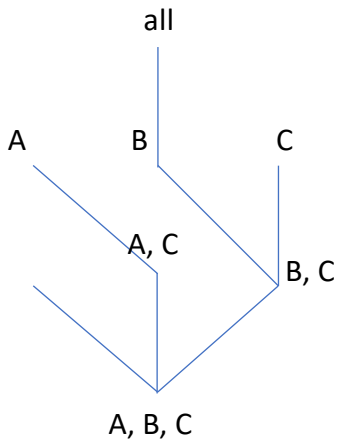
A)



B)

```
1-D Cuboid (*4 bytes)
      A: 1,000,000 * 4 = 4,000,000
      B: 100 * 4 = 400
      C: 10,000 * 4 = 40,000

2-D Cuboid (*4 bytes)
      AB: 1,000,000 * 100 * 4 = 400,000,000
      AC: 1,000,000 * 10,000 * 4 = 40,000,000,000
      BC: 100 * 10,000 * 4 = 4,000,000

3-D Cuboid (*4 bytes)
      ABC: 1,000,000 * 100 * 10,000 * 4 = 4,000,000,000,000

Total bytes: 4,040,408,040,400
```

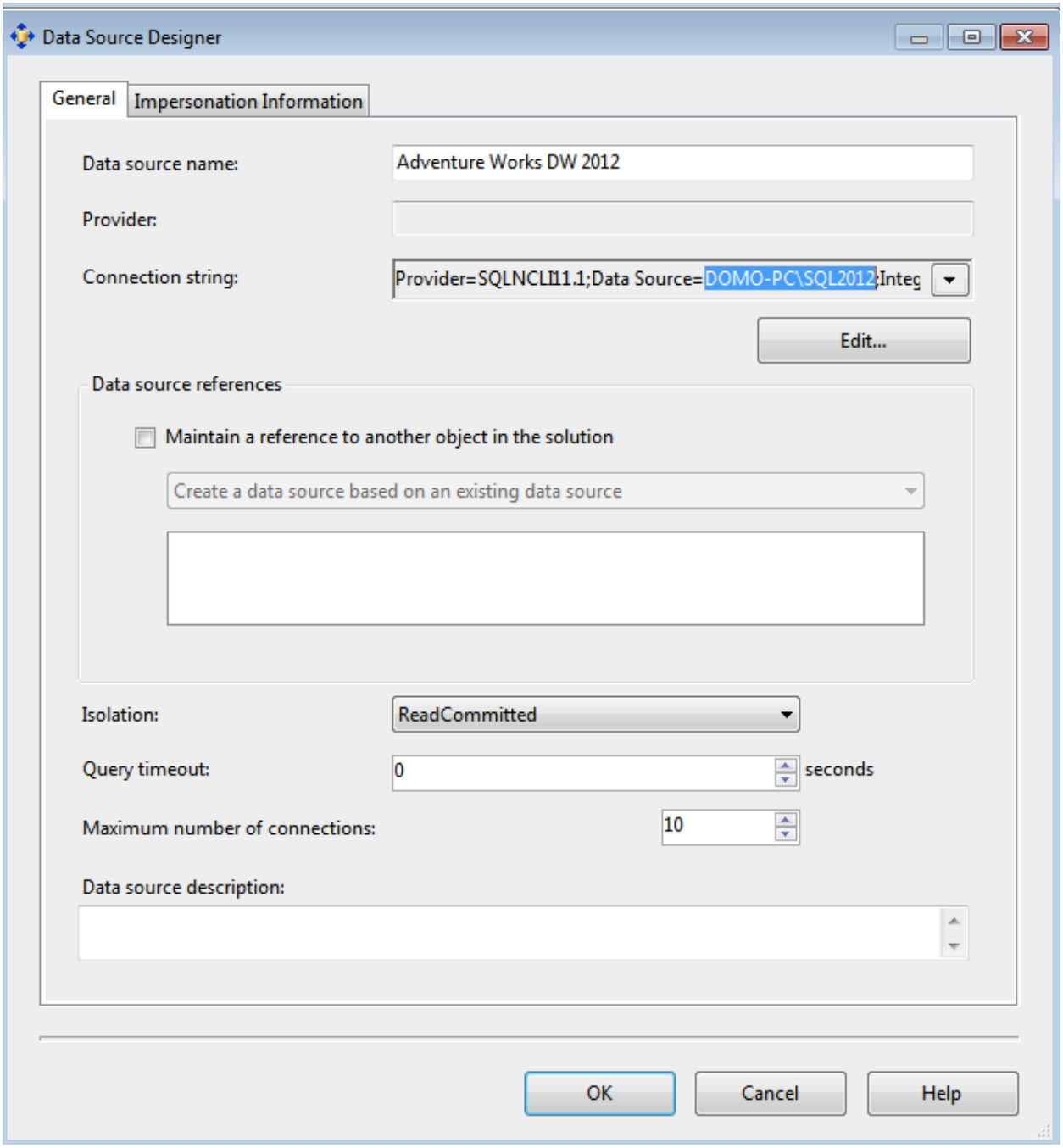
C)

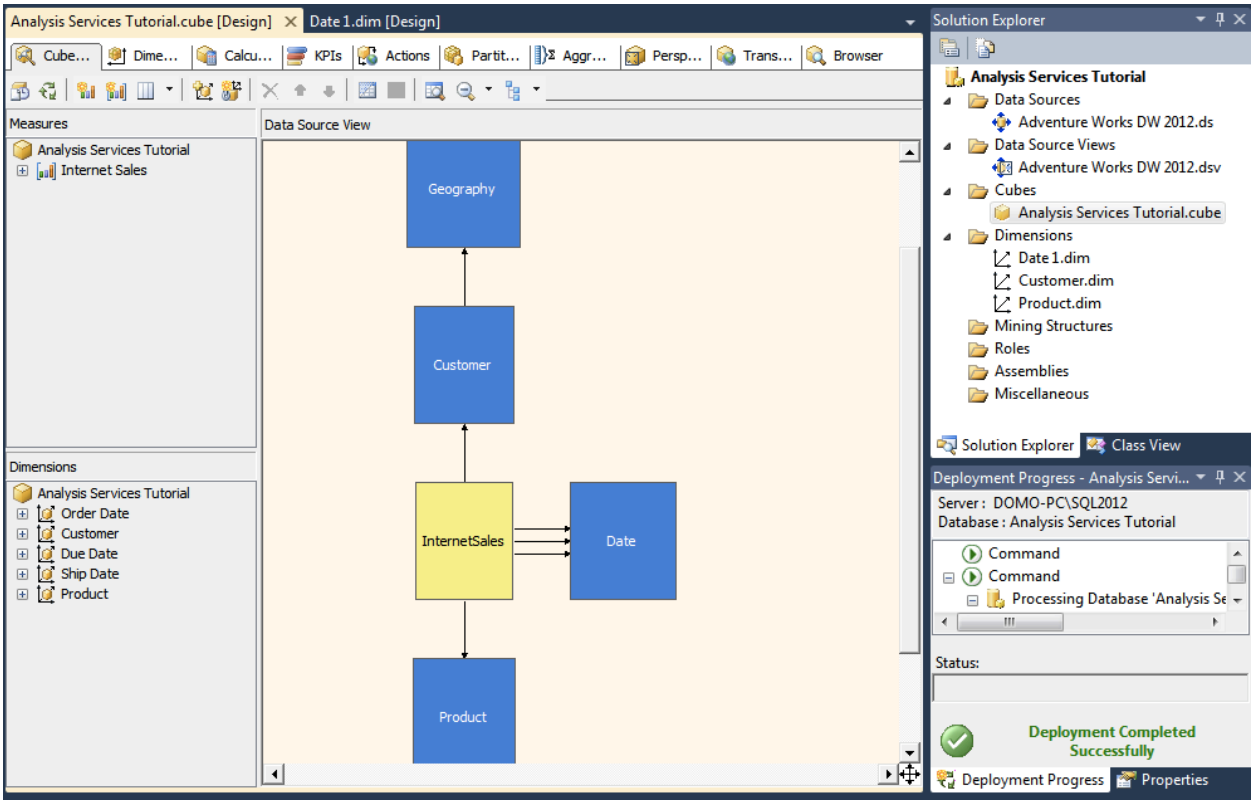


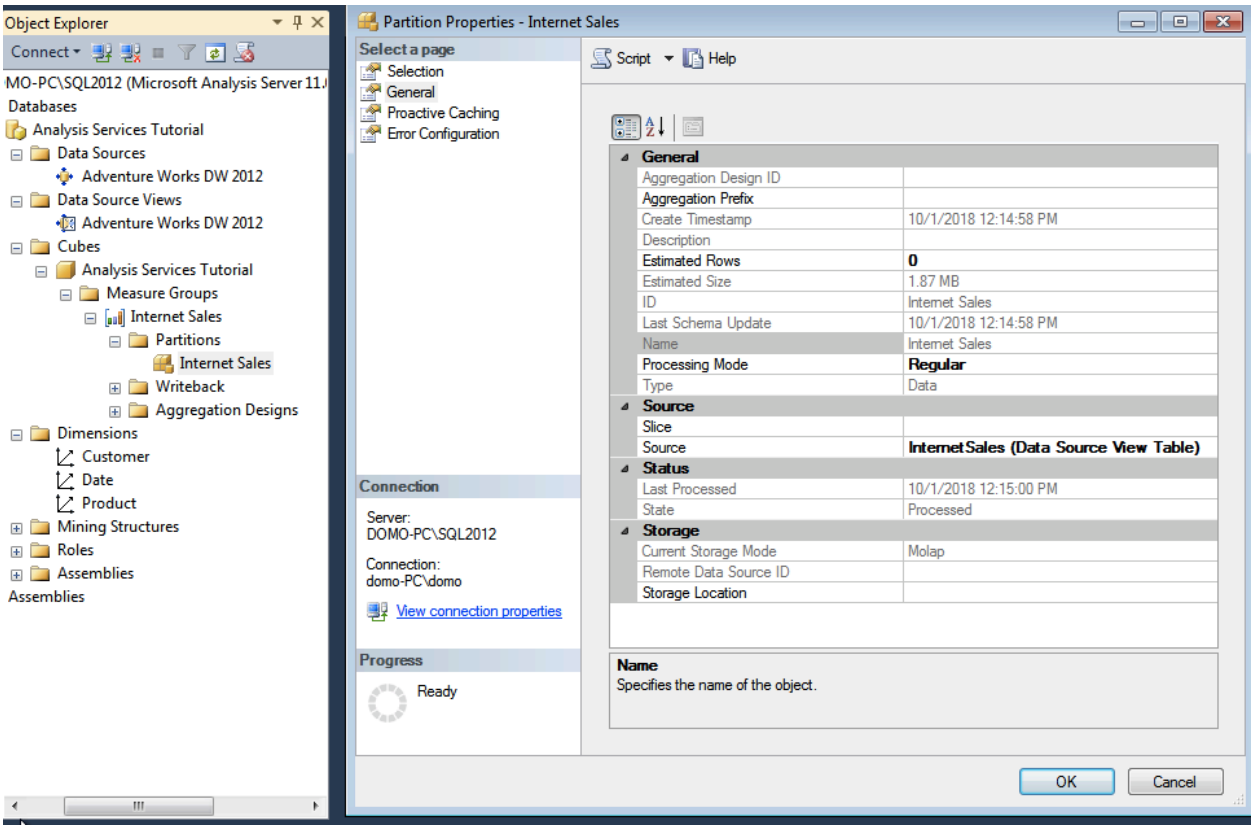

```
1 chunk of plane A,C = 400,000,000
10 chunk of plane A,B = 400,000,000
100 chunk of plane B,C = 4,000,000

Total bytes: 804,000,000
```

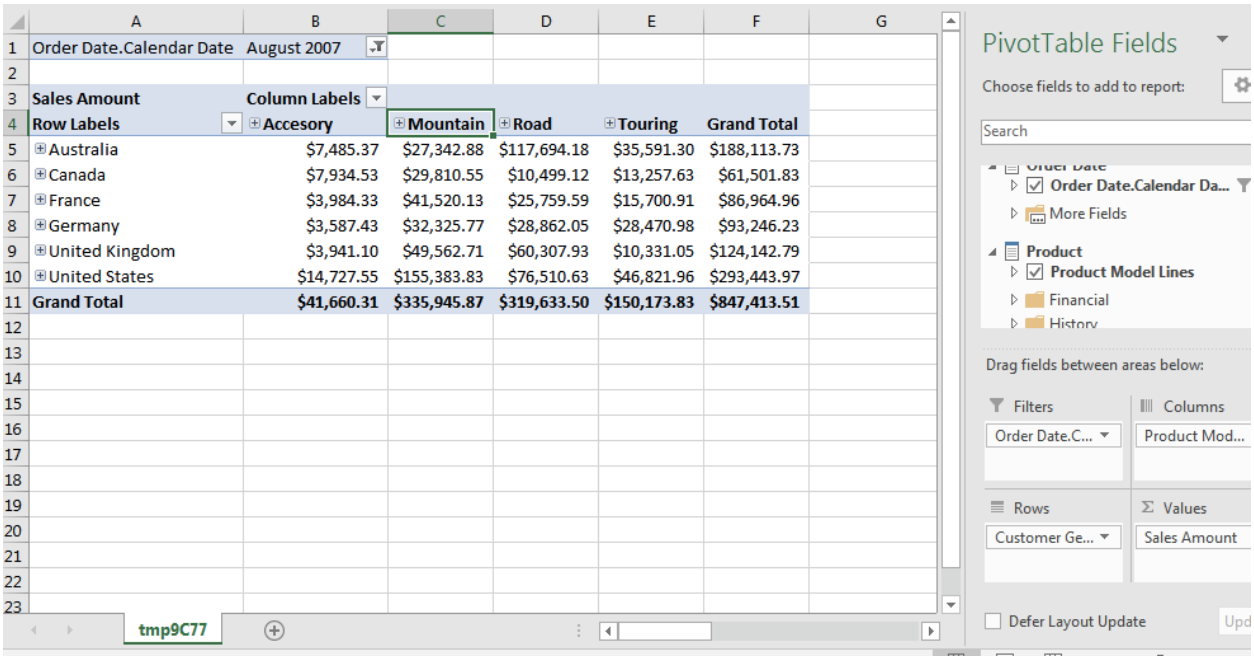
PART II: (Time spent: 3h 30min):

Question 3:




Analysis Services Tutorial.cube [Design]
Date 1.dim [Design]
Cube...
Dime...
Calcu...
KPIs
Actions
Partit...
Aggr...
Persp...
Trans...
Browser
Measures
Analysis Services Tutorial
Internet Sales
Dimensions
Analysis Services Tutorial
Order Date
Customer
Due Date
Ship Date
Product
Data Source View
Geography
Customer
InternetSales
Date
Product
Solution Explorer
Analysis Services Tutorial
Data Sources
Adventure Works DW 2012.ds
Data Source Views
Adventure Works DW 2012.dsv
Cubes
Analysis Services Tutorial.cube
Dimensions
Date 1.dim
Customer.dim
Product.dim
Mining Structures
Roles
Assemblies
Miscellaneous
Solution Explorer
Class View
Deployment Progress - Analysis Servi...
Server : DOMO-PC\SQL2012
Database : Analysis Services Tutorial
Command
Command
Processing Database 'Analysis Se
Status:
Deployment Completed Successfully
Deployment Progress
Properties


Object Explorer
Connect
MO-PC\SQL2012 (Microsoft Analysis Server 11.
Databases
Analysis Services Tutorial
Data Sources
Adventure Works DW 2012
Data Source Views
Adventure Works DW 2012
Cubes
Analysis Services Tutorial
Measure Groups
Internet Sales
Partitions
Internet Sales
Writeback
Aggregation Designs
Dimensions
Customer
Date
Product
Mining Structures
Roles
Assemblies
Assemblies
Partition Properties - Internet Sales
Select a page
Selection
General
Proactive Caching
Error Configuration
Script
Help
General
Aggregation Design ID
Aggregation Prefix
Create Timestamp 10/1/2018 12:14:58 PM
Description
Estimated Rows 0
Estimated Size 1.87 MB
ID Internet Sales
Last Schema Update 10/1/2018 12:14:58 PM
Name Internet Sales
Processing Mode Regular
Type Data
Source
Slice
Source Internet Sales (Data Source View Table)
Status
Last Processed 10/1/2018 12:15:00 PM
State Processed
Storage
Current Storage Mode Molap
Remote Data Source ID
Storage Location
Connection
Server:
DOMO-PC\SQL2012
Connection:
domo-PC\domo
View connection properties
Progress
Ready
Name
Specifies the name of the object.
OK
Cancel



	A	B	C	D	E	F	G
1	Order Date.Calendar Date	August 2007					
2							
3	**Sales Amount**	**Column Labels**					
4	**Row Labels**	**Accesory**	**Mountain**	**Road**	**Touring**	**Grand Total**	
5	Australia	$7,485.37	$27,342.88	$117,694.18	$35,591.30	$188,113.73	
6	Canada	$7,934.53	$29,810.55	$10,499.12	$13,257.63	$61,501.83	
7	France	$3,984.33	$41,520.13	$25,759.59	$15,700.91	$86,964.96	
8	Germany	$3,587.43	$32,325.77	$28,862.05	$28,470.98	$93,246.23	
9	United Kingdom	$3,941.10	$49,562.71	$60,307.93	$10,331.05	$124,142.79	
10	United States	$14,727.55	$155,383.83	$76,510.63	$46,821.96	$293,443.97	
11	**Grand Total**	**$41,660.31**	**$335,945.87**	**$319,633.50**	**$150,173.83**	**$847,413.51**	
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21							
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23							