PROJECT PART 3

MS SQL SERVER ANALYSIS SERVER CUBE

Create a multidimensional cube.
Use Visual Studio and Microsoft SQL Analysis Services.
If using the remote server, these are the names of the servers and related databases:

SERVER TYPE	SERVER NAME	DATABASE NAME
DATABASE ENGINE	ESSQL1	ES9550___
ANALYSIS SERVICES	ENT-ASRS.WALTONCOLLEGE.UARK.EDU	ES9550___AS

If using your own computer, the name of the server is LOCALHOST

- In SQL Server Management Studio, create a view for a fact table that contains the following three measures: enrollment, eBook Price, eBook Revenue (or Sales).
  Calculate ebook Revenue as the sum of the product (eBook price * Enrollment)
- In Visual Studio, create a new multidimensional cube project.
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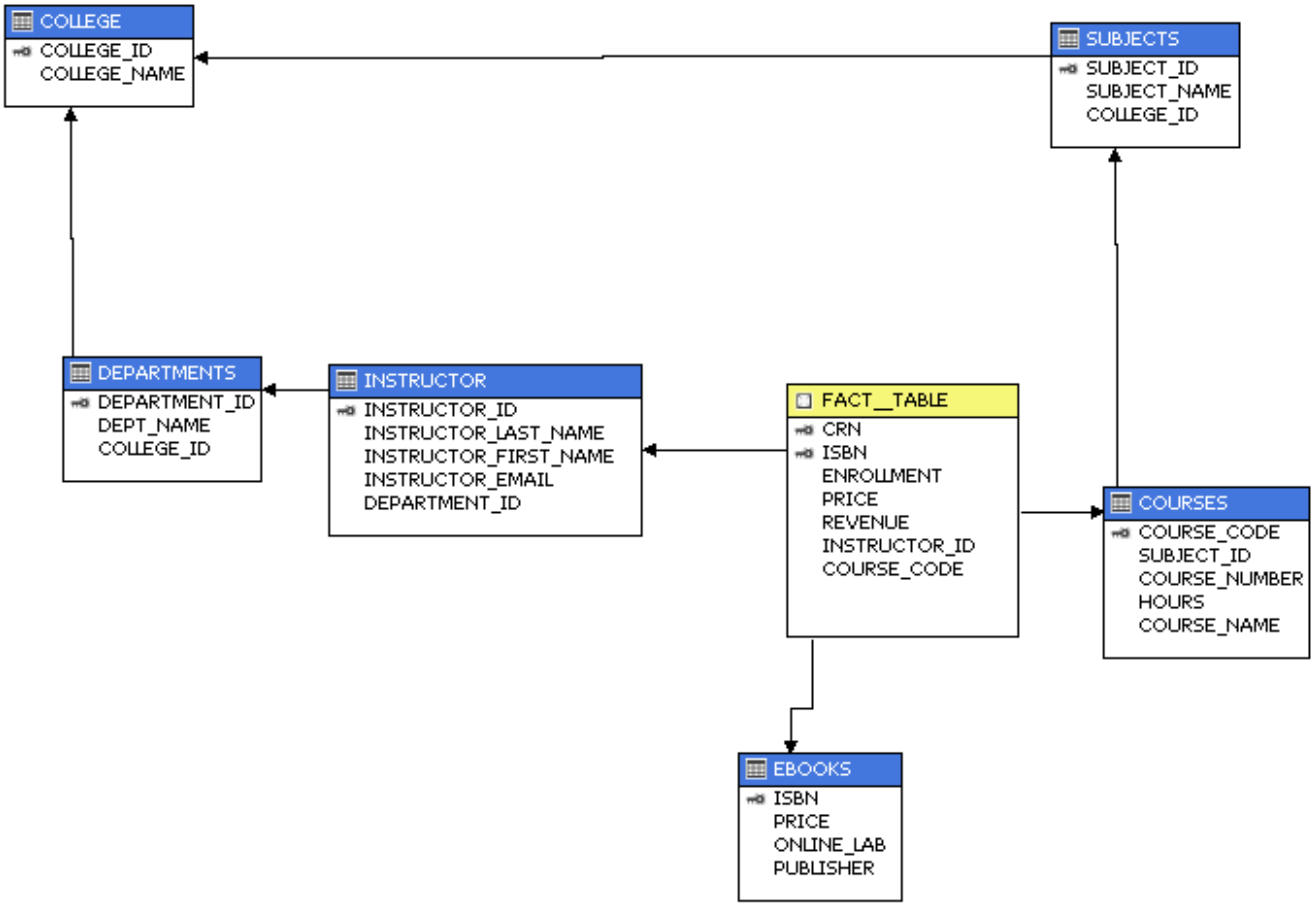
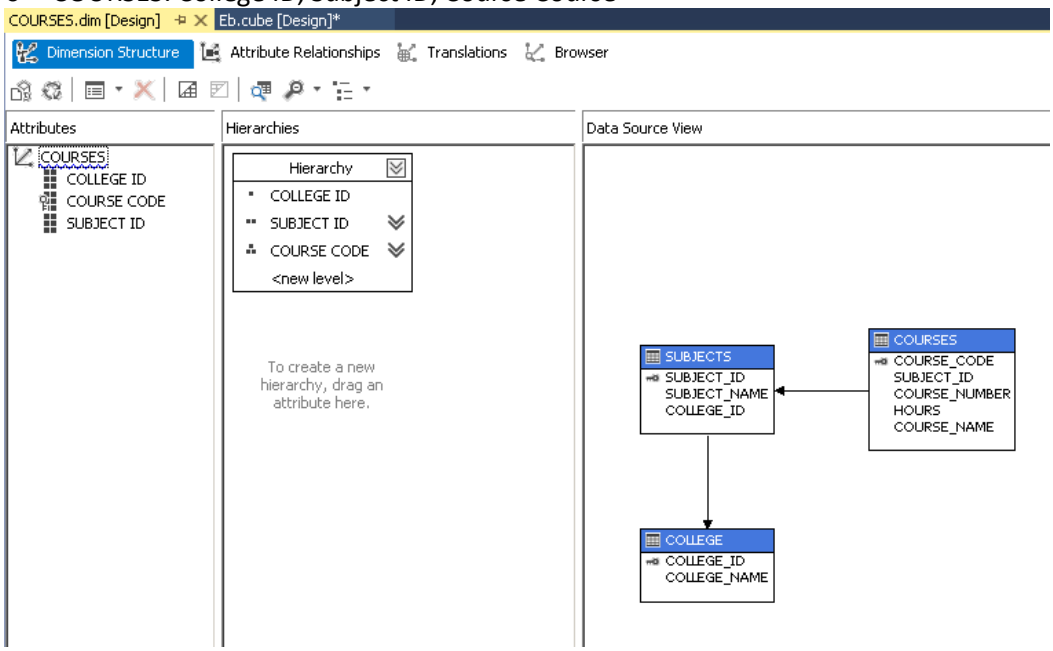
- In Solution Explorer:
- Set up a data source connection to the ebooks database.
- Create a schema (data source view) based on the following example:

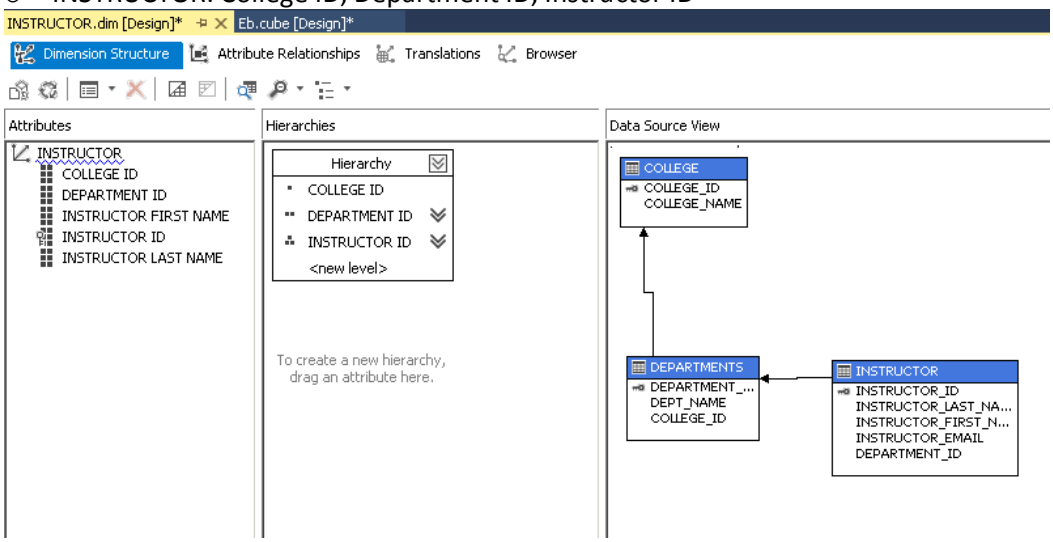


- Build a cube to analyze the measures (facts)

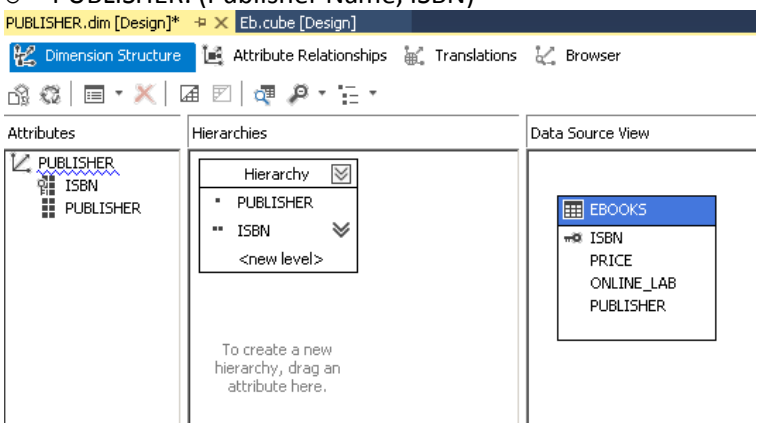
- Define the following three dimensions along with its attributes and hierarchies:
    - COURSES: College ID, Subject ID, Course Course



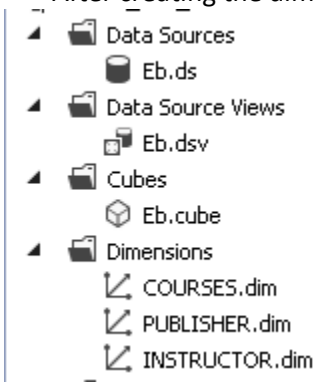
    - INSTRUCTOR: College ID, Department ID, Instructor ID



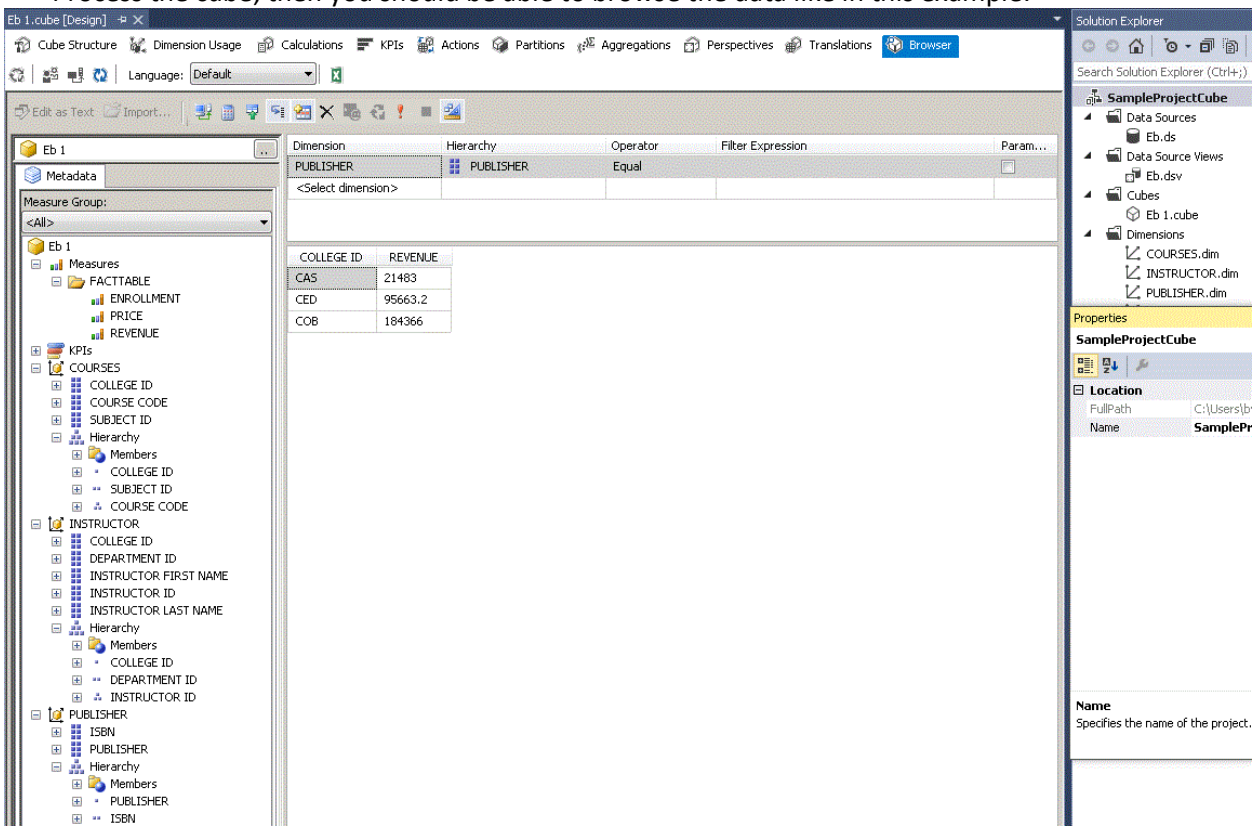
    - PUBLISHER: (Publisher Name, ISBN)



- After creating the dimensions, solution explorer should look like this example:



- Process the cube, then you should be able to browse the data like in this example:



- Submit the **entire project folder** as a zip file, name it 'YourName_Project3.zip'

The project folder is saved by default to the Documents/Visual Studio/projects folder
In addition, submit a snapshot of the cube displaying the structure of the cube, just like the sample snapshot below. Save the snapshot as a PDF or JPG file.
If you installed MS SQL on your own computer referto this video: CUBE VIDEO
If you are using MS SQL on the remote server, refer to this other video: Cube (using remote server)

ADDITIONAL STEPS WHEN USING A LOCAL INSTALLATION OF MS SQL

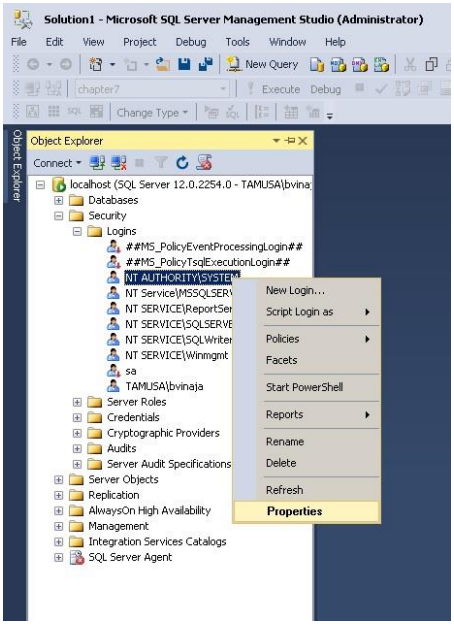
HOW TO CONFIGURE SECURITY FOR THE PROJECT DATABASE.

The following steps are only applicable if you installed MS SQL on your own computer.

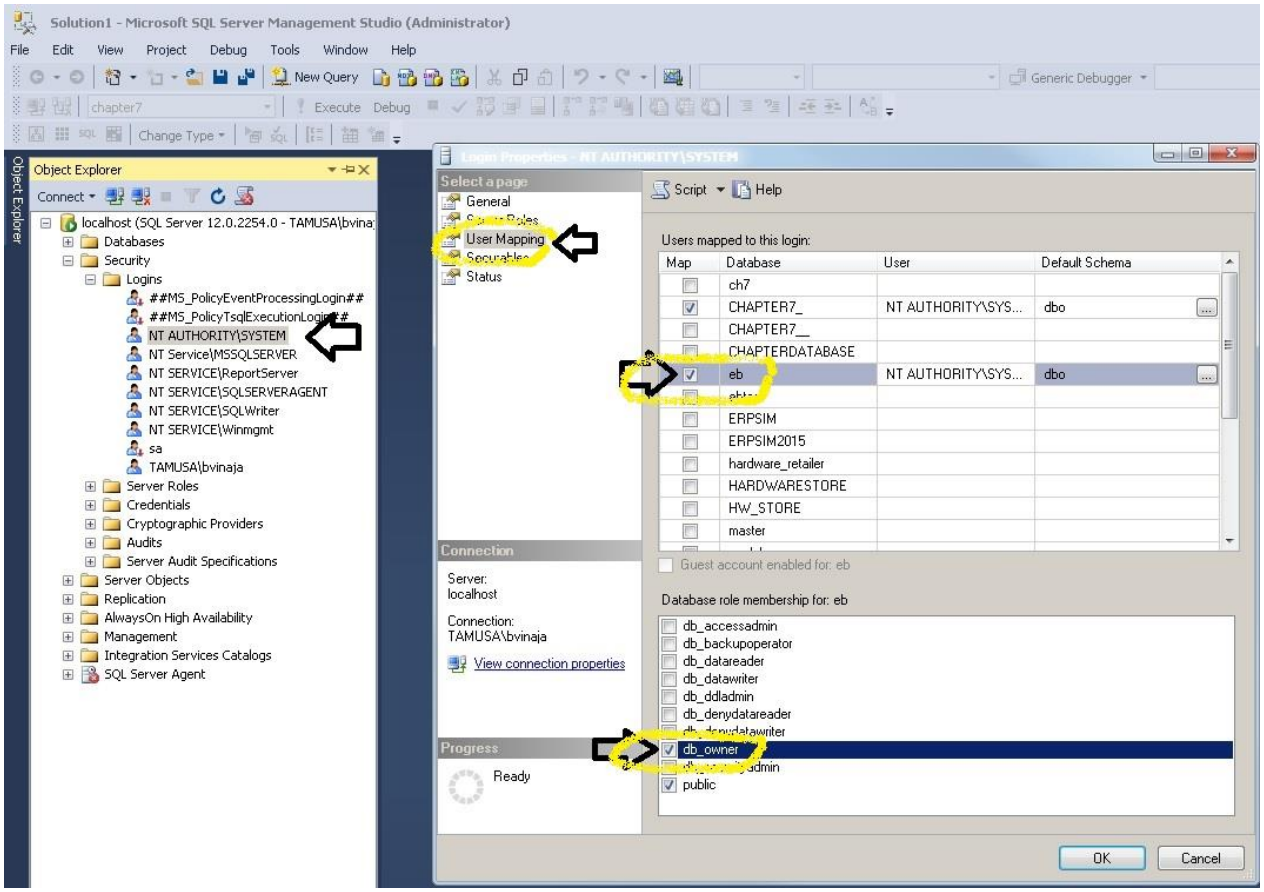
Before building the cube, go over the prerequisites as explained in this video:

Prerequisites for Project 2 and Project 3

Connect to the local MSSQL server using MS SQL Management Studio. In Solution Explorer, expand the **Security** folder, then the **Logins** folder and right click on the account used to run the MSSQLServer service, in this example we assume is the **SYSTEM** account. From the context menu select **Properties**.



When the Login Properties windows opens, select the **User Mapping** page, then check the box for the project database (**eb**) and in the frame for **database role membership** check the box for **db_owner**. Click OK to close the window.


Solution1 - Microsoft SQL Server Management Studio (Administrator)
File Edit View Project Debug Tools Window Help
New Query
Generic Debugger
Execute Debug
Change Type
Object Explorer
Connect
localhost (SQL Server 12.0.2254.0 - TAMUSA\bvinaj
Databases
Security
Logins
##MS_PolicyEventProcessingLogin##
##MS_PolicyTsqlExecutionLogin##
NT AUTHORITY\SYSTEM
NT Service\MSSQLSERVER
NT SERVICE\ReportServer
NT SERVICE\SQLSERVERAGENT
NT SERVICE\SQLWriter
NT SERVICE\Winmgmt
sa
TAMUSA\bvinaja
Server Roles
Credentials
Cryptographic Providers
Audits
Server Audit Specifications
Server Objects
Replication
AlwaysOn High Availability
Management
Integration Services Catalogs
SQL Server Agent
Login Properties - NT AUTHORITY\SYSTEM
Select a page
General
User Mapping
Securables
Status
Script
Help
Users mapped to this login:
Map
Database
User
Default Schema
ch7
CHAPTER7_
NT AUTHORITY\SYS...
dbo
CHAPTER7__
CHAPTERDATABASE
eb
NT AUTHORITY\SYS...
dbo
ERPSIM
ERPSIM2015
hardware_retailer
HARDWARESTORE
HW_STORE
master
Guest account enabled for: eb
Database role membership for: eb
db_accessadmin
db_backupoperator
db_datareader
db_datawriter
db_ddladmin
db_denydatareader
db_owner
public
Connection
Server:
localhost
Connection:
TAMUSA\bvinaja
View connection properties
Progress
Ready
OK
Cancel

TABLEAU

Create the following charts based on the ebooks database:

Create a pie chart that shows ebook revenue by College.

Create a horizontal bar chart that shows ebook sales by Publisher.

Create a column chart that shows enrollment by college.

Create a dashboard and include all three charts in the dashboard.

Save the dashboard as a local file with the name YourName_Dashboard.twb

Publish the dashboard to Tableau Public (you will need to create a data extract).

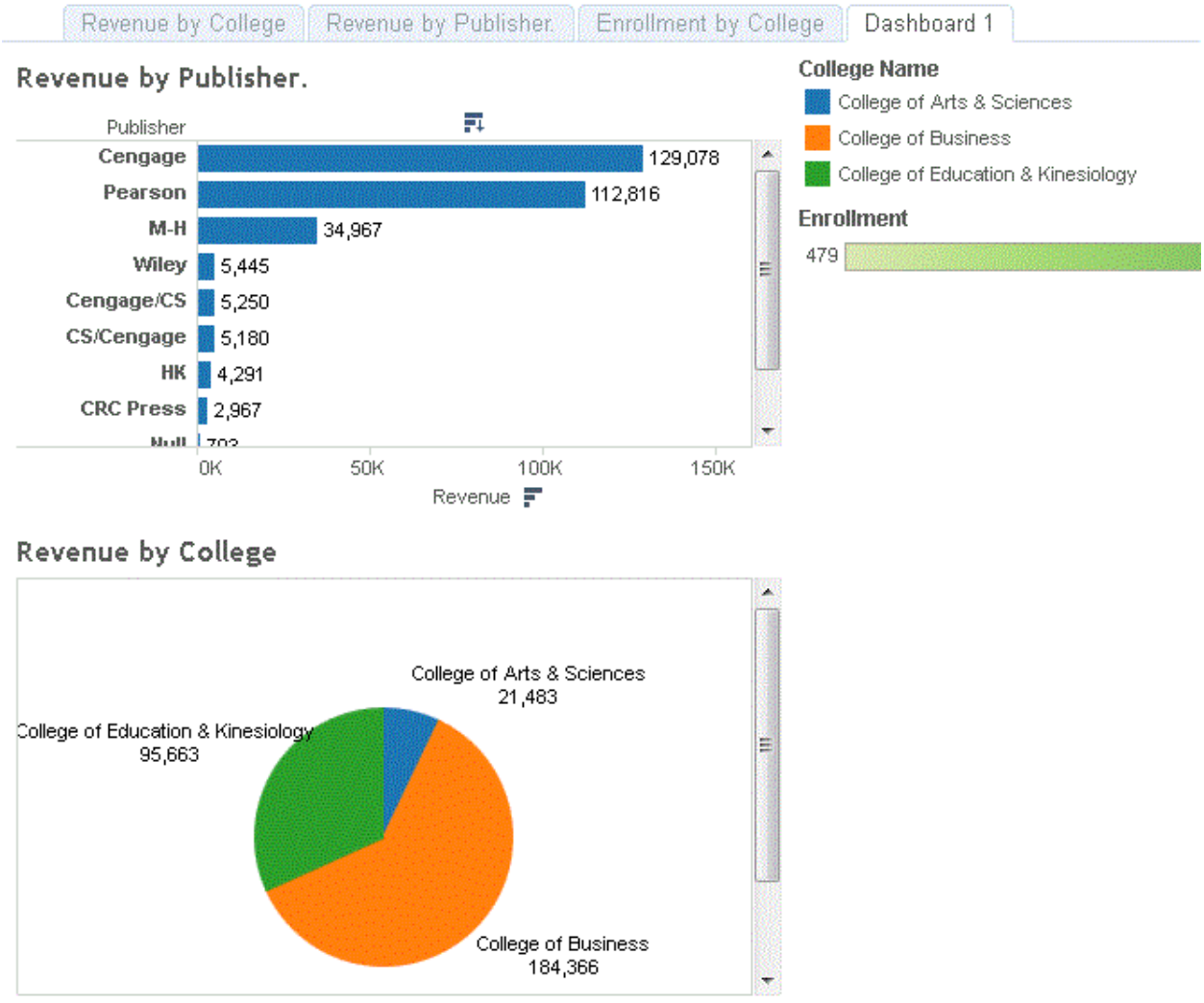
Submit the Tableau local file and the URL address for your dashboard.

Refer to these 3 videos:

[Tableau 1]

[Tableau 2]

[Tableau 3]



Do not submit your project if it is not 100% complete.

Late penalty is 30% per day late.