

IT 4713 Class Project Overview

By Jack Zheng, Spring 2020

This document provides a general guide to the project that applies to all milestones. Refer to each milestone guide for details.

Introduction

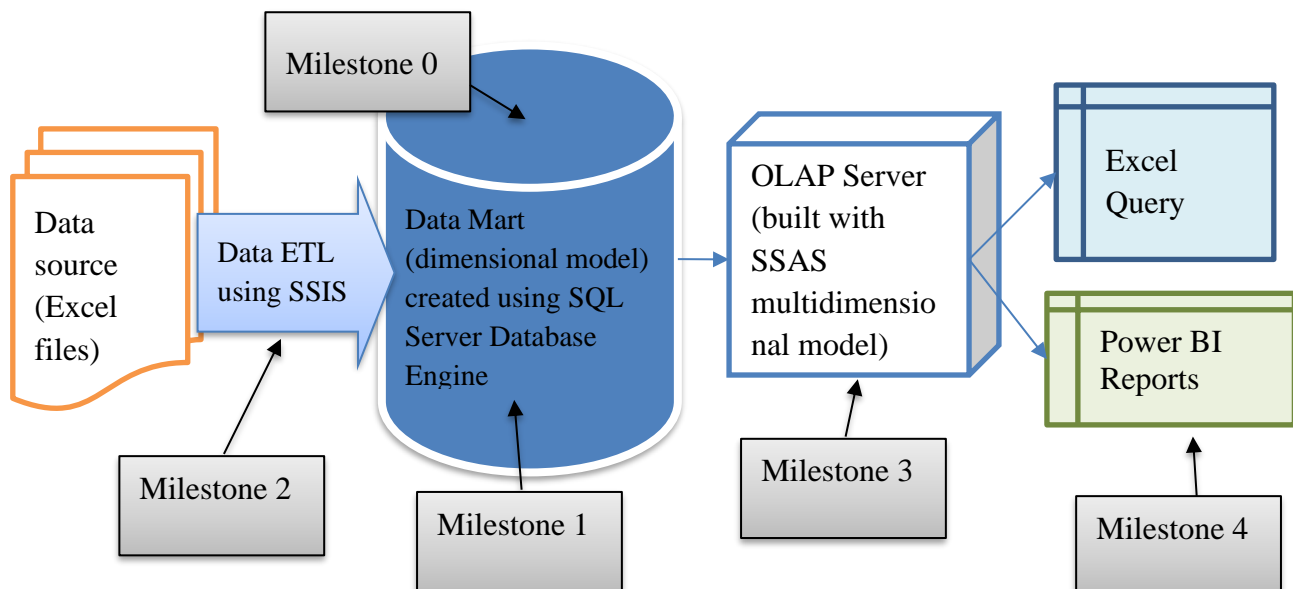
IT 4713 implements a project based learning approach. The project will last the whole semester and closely corresponds to milestones and learning modules.

In this individual project, we are going to gather, analyze, and report based on the SPSU/KSU course registration data. You probably got familiar with this data through OwlExpress class schedule web app at https://owlexpress.kennesaw.edu/prodban/bwckschd.p_disp_dyn_sched (you can also search for courses using a more functional web app at <http://idi.kennesaw.edu/owl/>). Sample data set had been scrapped from the web and will provided in Excel in later milestones.

The project will be completed in 5 cumulative milestones. The requirements of each milestone will be posted in separate documents/guides as we progress according to schedule.

Project Milestone #	Major Milestone Tasks	Corresponding Learning Modules
0	SQL Server basics	1 and 2
1	Data modeling and data mart creation using SQL Server	3 and 4
2	Data import and integration using SSIS	5 and 6
3	SSAS OLAP setup and query	7 and 8
4	Client side query (Excel) and reporting (Power BI)	9, 10, and 11

The diagram below illustrates the process and system architecture with the 5 milestones:



Each milestone requires that you complete relevant readings and lab work first. The milestones will go a little beyond lectures and labs, so you may have to do some research and experiments on your own to complete them. Do not underestimate the work for each milestone, so start early.

We have reserved some class sessions/weeks dedicated to the project specifically, because of the significant effort on each milestone. In each of these weeks, students will analyze requirements, seek clarification, conduct research, experiment, and trouble shoot problems. Online section students are welcome to join the class (if available) or office hour for interactive discussion. Refer to the class schedule for scheduling of these classes.

Special Note

- The project tries to mimic a real world scenario and it is a bit open and exploratory. A certain amount of vagueness was planned in the project. You need to actively seek clarifications and sometimes make reasonable assumptions to reach a good solution.

General requirements for project work and milestone report

Collaboration

Students need to complete all works that require submission independently. I will not directly trouble shoot problems for you but may offer occasional hints if I think it is necessary. You may discuss the labs (on the no submission part) but still do it independently (on the submission-required part).

Unauthorized collaboration on is considered academic misbehavior. I also normally do not pre-check if you have done the work correctly before the due date, unless you are totally off the track.

For labs that do not require submission, students are free to work together and help others.

Milestone report submission

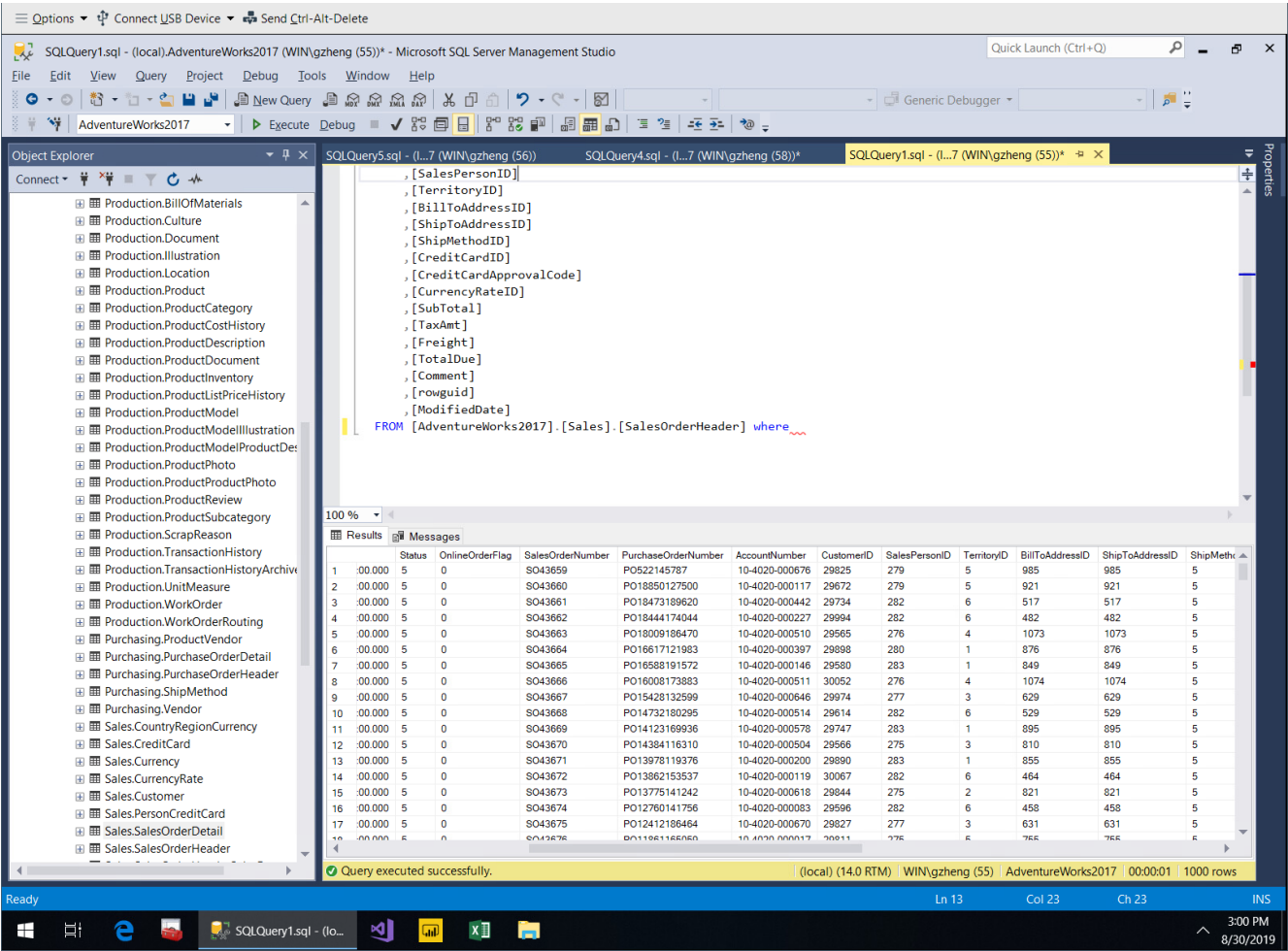
All milestones generally ask for screenshots compiled in a milestone report with clear explanations. Compile all required screenshots and descriptions in **ONE** file and submit it in D2L.

All labs should be done by yourself. All labs are important and students should complete labs before starting project milestones.

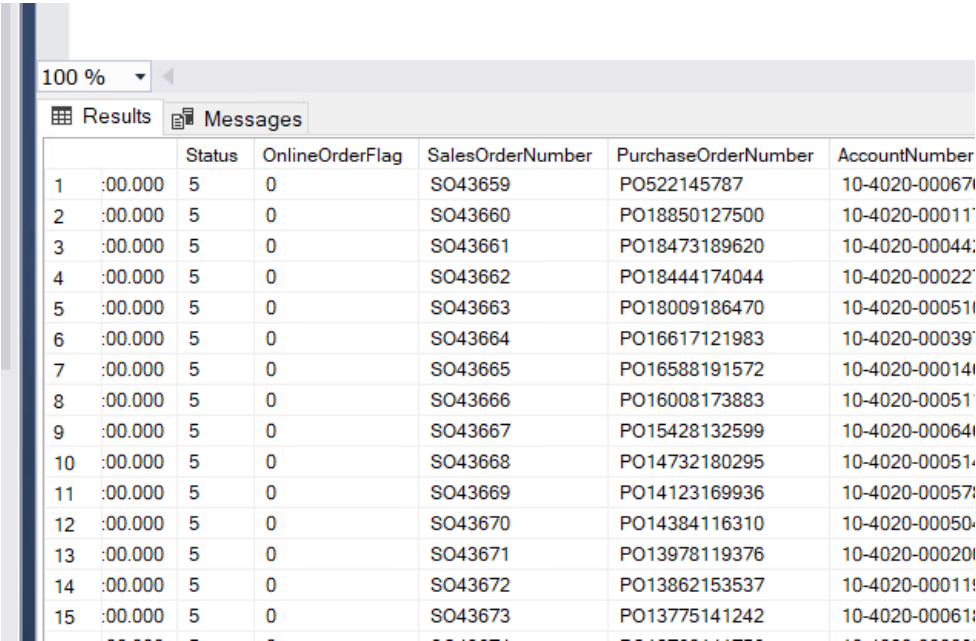
Screenshot requirements

All screenshots must be clear, original, and show the complete screen - no graphic editing or cropping is allowed. See examples below. Clearly label and explain all parts.

Acceptable screenshot



Unacceptable screenshots



Grading

The labs/milestones are generally assessed based on:

- Completion of required tasks.
- Satisfaction of submission requirements.
- The quality of lab report, including completeness and explanation of screenshots.

Rubric (see details in each milestone guide):

Score	Summary	Rating Description
10	Outstanding work; beyond expectation.	Completed all required tasks and steps correctly. Clear screenshots with good explanations.
8-9	Good work; meet expectations	Completed all tasks and steps but with minor mistakes. Missing some screenshots, or without explanations.
6-7	Adequate work; need improvement.	Completed most tasks and steps and with minor mistakes. Missing key required screenshots, or unclear/unqualified screenshots.
<6	Lack of effort.	Incomplete work. Unclear, partial screen, or edited screenshots.

Grading notes:

- Need to grade many student works in a short time; may not provide comprehensive and detailed explanation of grading.
 - Use rubric for grade ranges.
 - The work in this course is more open and subjective. The rubric is only for a rough grade range.
- Understand and review your grade and work
 - Match your grade to the rubric grade range. Check the general comments for each range.
 - For individual feedback, only key issues will be listed without comprehensive and detailed explanation.
 - A summary file will be provided to the whole class. This file summarizes issues and key points. Always check the summary file together to understand your own grade and work.
 - Contact the instructor if you need more detailed explanation.
- The meaning of lab or project grade (refer to rubrics for details)
 - Generally, “A” means very good work (9 or 9.5 out of 10). Please don’t understand it as you lose 0.5 or 1 point because you did something wrong. You may not get full credit even if you satisfy minimum requirements.
 - 10 or full credit means exceptional work, usually beyond expectations.
- Late submissions
 - Generally allowed with prior communications but will get deductions (at least 20% off).
 - Usually you can still submit late work after the “due date”. Your submission will be labeled as “late”.
- Mistakes may happen, please always communicate.