# IMT 600 Independent Study Proposal

# Data Warehousing & Business Intelligence – AU- 2016/ W. Prof. Bob Larson

Abstract:

With this independent study, I intend to learn the concepts of Data warehousing and Business Intelligence. I would also like to delve into some data analysis and learn about data from business perspective. I intend to develop an end to end project starting from data collection, cleaning it, designing data warehouse, writing ETL and then finally using it to develop dashboards. I also plan to learn more about SQL stack eg. SSMS, SSIS and SSRS by completing online courses­­.

Learning Objectives:

* Understand concepts of Data warehousing and Business Intelligence.
* Learn different aspects of SQL Server Stack like SSMS, SSIS and SSRS.
* Implement a dummy project showcasing end to end skills as it is done in Industry.
* Develop skillset which would help me grow in the role of Data Analyst.

Resources:

* Relational Database Support for Data Warehouses: <https://www.coursera.org/learn/dwrelational/home/welcome>
* Data Warehouse Concepts, Design, and Data Integration: <https://www.coursera.org/learn/dwdesign>
* MSDN Certifications: <https://www.microsoft.com/en-us/learning/mcsa-sql-certification.aspx>
* RDBMS and Data Warehousing Books.

Activities and schedule:

Week 1 - 5: Understanding concepts and setting the ground for the Project (Study and Research)

Week 5 - 10:

* Implementation of the Project
* Developing Final Report

Project and deliverables:

* Completion of multiple online trainings (Mostly considering Free courses, hence no certification).
* Multiple segments of the End to end Project (Data warehouse Design, SSMS code, Tableau or Power BI dashboards).
* Final Report.

Evaluation criteria

* Project implementation and working: 50%
* A working knowledge of Data Warehousing (evaluated through completion of courses): 20%
* A working knowledge of Business Intelligence (evaluated through completion of courses): 20%
* Final Report: 10%