**Introduction to Microsoft Transact SQL Queries**

**Notes – Week 1**

**Resources:**

* GitHub repository for this class:
  + <https://github.com/CodeFlo-JHenry/SQLOptimize>
* SQL Server Express 2014 w/ Tools download
  + <http://www.microsoft.com/en-us/server-cloud/products/sql-server-editions/sql-server-express.aspx>
* Adventure Works 2014 full database download
  + <https://msftdbprodsamples.codeplex.com/releases>
* Adventure Works Cycles company/database overview:
  + <http://technet.microsoft.com/en-us/library/ms124825(v=sql.100).aspx>
* My e-mail:
  + JeremyH416@gmail.com

**Installing SQL Server Express 2014**

* Download from: <http://www.microsoft.com/en-us/server-cloud/products/sql-server-editions/sql-server-express.aspx>

**Using GitHub**

**Relational Database concepts overview**

* **Normalization**
  + **1st Normal Form**
  + **2nd Normal Form**
  + **3rd Normal Form**
* **Primary Keys**
* **Foreign Keys**
* **Indexes**
* **Schemas**
* **Other RDBMS systems**

**SQL data types**

**Basic SQL query structure/syntax**

* **SELECT and FROM**
* **WHERE and ORDER BY**
* **Writing readable SQL** 
  + **Schema, aliases and qualification**
  + **Tabbing**