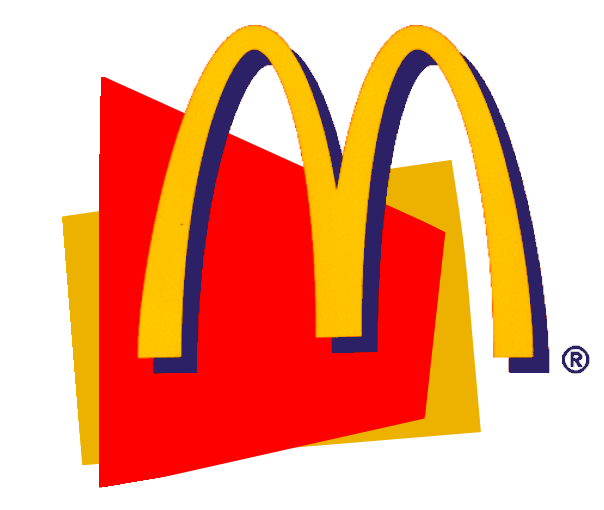
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Business Intelligence and Data Analytics

Professor Li

Database Creation Project: Mcdonalds

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Part IV: Reflection

Our team worked efficiently to both design and develop this database. Our approach was to sketch out the tables, brainstorm what content we wanted to be stored in each table, and how these tables have relationships with one another (primary keys / foreign keys). Once we had all of that mapped out, we turned to various internet resources - in addition to class material - for assistance with actual development with SQL code. Several helpful resources included the likes of W3 Schools and various YouTube videos. Once we understood how to bring our database into fruition, we divided up the work amongst ourselves. Hunter was in charge of drafting the design of the database in addition to developing our database’s table field content. He preferred to do most of the coding through Visual Studio having grown comfortable with it through the Problem Solving and Software Design class. Harrison was tasked with adding table constraints and connecting their relationships with keys. Kelsey and Joe took charge with manually inserting all the data into our tables – which was also a very time consuming process. Because Joe and Kelsey had to manually insert all of the data, we ran into several human-related errors – primarily with typos. In addition to our assigned tasks surrounding the creation of the database, we also had to come up with queries to run for our database. Each one of us made our own query and we combined them in *mcdonalds\_dbqueries.sql*.

One challenge for us during the creation of the database was finding enough content to put into both our SeasonalMenu table and DrinkMenu table. Mcdonalds is famous for having a straight forward menu with little variance in seasons – so most changes to their menu involve new ideas for burgers, sandwiches and so on and so forth. They also have a small selection of drinks as a lot of their soda options are labeled generically as “soft drink”. We added more to our food table to try and balance the lack of drink selection within our database. On top of these issues, we also encountered problems finding mutual time to meet each week. If we could go back and do things differently, we would choose a better way of effectively communicating with our team. All in all, this project was effective in developing hands on computer skills surrounding databases. Our team has walked out of this with a much better understanding of how these databases are designed for various companies.