# ITEC 4200 Advanced Database Semester Project

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Semester: Spring 2018

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**EXECUTIVE SUMMARY**

**Objective**

This database is designed to build an inventory application for the mybeautyorganizer.com website that will enable users to track their personal makeup collection cross-platform.

**Goals**

The goal of this database project is to provide a simple and organized method of storing and retrieving relevant data for the implementation of the My Beauty Organizer(MBO) inventory application. Additionally, queries and reports will be created which will provide useful information about the users, products and vendors for use on the MBO website. Forms will be implemented to allow easy and accurate entering of future additions of database information.

**Solution**

The solution is the creation of multiple database tables including the relationships between those tables. The tables consist of the following: ***Store\_Information***, ***Beauty\_Items***, **Makeup\_Brands, Customer\_Account\_Information, Makeup\_Inventory\_Account\_** and **Account\_Inventory**. These tables represent the main entities of the application, and contain links that define the relationships between entities. These tables allow the generation of various queries, forms and reports which will provide requested information. The database will be implemented using Oracle 11g Express.

**Benefits to Users**

The database will serve as the information backbone for the inventory application of the MBO website. As such, it will provide utiity to the user in identifying products in their private makeup collection. Additionally, it will generate income and traffic for the website.

**Project Outline**

The project will contain the following major components:

* Schema Design
* Entity-Relationship Diagram
* Table Implementation
* Queries
* Reports
* Forms

**SCHEMA DESIGN**

**MAKEUP\_BRAND**(brand\_name, email, vegan\_status, animal\_testing, contact\_person)

**MAKEUP\_ITEMS**(makeup\_items\_id, brand\_name, item\_name, item\_type, color\_family, shade\_name,date\_product\_launch, limited\_edition\_status, makeup\_item\_price)

FK brand\_name → MAKEUP\_BRAND

**CUSTOMER\_ACCOUNT\_INFORMATION**(customer\_id, customer\_last\_name, customer\_first\_name, customer\_email, customer\_username, newsletter\_opt, customer\_password)

**MAKEUP\_INVENTORY\_ACCOUNT**(makeup\_inventory\_account\_id, makeup\_inventory\_account\_type, customer\_id)

FK customer\_id → CUSTOMER\_ACCOUNT\_INFORMATION

**ACCOUNT\_INVENTORY**(makeup\_items\_id, makeup\_inventory\_account\_id, date\_purchased, store\_name)

FK makeup\_items\_id → MAKEUP\_ITEMS

FK makeup\_inventory\_account\_id → MAKEUP\_INVENTORY\_ACCOUNT

**STORE\_INFORMATION**(store\_name, store\_return\_policy, store\_website\_address)

**Entity-Relationship Diagram**

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Description generated with very high confidence**