**COSC 457 Database Project:**

**Jersey Mike’s Subs: Managerial Database**

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**Introduction**

**Target Business:**

Our team interviewed Christopher Martin store manager of the Jersey Mike's Subs, located in Gaithersburg, Maryland. He explained the business process from the initial interaction with the customer,all the way to finishing the transaction at the register. After taking a look at their POS system, our team noticed that there was no functionality within their interface that would show a manager or franchise owner “weekly sales by store”. We then came to a consensus that our database application would provide this feature.

**History of Business:**

In 1971, Peter Cancro was a highschool senior in Point Pleasant, New Jersey. He worked at a local sub shop called Mike’s Subs. Peter had been working at this establishment since he was 14 years old. He loved the two main dynamics of freshness and customer relations that Mike’s Subs represented. Peter loved the values that the brand stood behind so much, that he ended up purchasing the business from Mike. Fast forward to today and Peter Cancro is the CEO and oversees more than 1,500 locations currently or in development. To this day the brand stands behind its main principles of high quality meats and store baked bread daily. Along with providing the customers with the most accommodating customer service experience.

**Brief Description of Database Application:**

The database application we are making will be geared towards business owners and shift managers. The main focus of our program will be to maximize efficiency at peak hours by measurement of customer transactions. This sum will be collected in increments of 2 hours throughout the day, as well as totaled at the close of each day of business. This data will help shift managers and the franchise owner making the correct adjustments to their employees schedules. Our application will be able to report the the day that has the most customer transactions, as well as any given increment of two of to hours.

**Interview Release Form**

I hereby release the Producer, their legal representatives and assigns from all claims and liability relating to said interviews and testimonies. The Producer agrees to retain the integrity of the interviewee's image and voice, neither misrepresenting the interviewee's words nor taking them out of context.

I attest that I have voluntarily agreed to be interviewed and that this document contains the entire and complete agreement concerning the use and preservation of my interview.

Signature of Interviewee: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: 10/8/16. My signature below confirms my agreement with Dr. Hongs COSC 457 group in regards to the disposition of testimonials and interviews conducted with me, \_Christopher Martin\_\_, on October 8th of 2016

I understand that both the footage of me and transcripts (if transcribed) of the interview(s) will be maintained and made available indefinitely by the Producer for such research, production (e.g., websites, radio, television, film festivals, World Wide Web, exhibitions, related advertisements), and educational purposes as the Producer shall determine, in any medium, known or unknown, in perpetuity throughout the universe. I hereby grant, and transfer to the Producer all rights, title, and interest in the interview and video production, including without limitation the literary rights and the copyright.

Name (printed):

Christopher Martin

User Requirements

Data Model Description

Each location has one manager. Manager has three attributes Fname, Lname, salary, and Emp\_ID. A customer goes into the store and places an order with an employee. Customer’s have one attribute named customer\_ID. Employees contain five attributes pay\_rate, emp\_ID,Lname, Fname, and m\_init. Each employee can have skill; Each skill can be divided into four skill types: wrapping, register, slicing, and sprinkling. After the order is placed, the sandwich is then prepped. First by slicing; then sprinkling; then wrapping; and finally finishing the transaction at the register. This process requires there to be a minimum of 4 employees on duty as well as one manager. Once the meal is ready, the transaction is added to the transaction count. The transaction\_count has two attributes hourlyIncrement\_total and daily\_total.

**Database Interactions and Use Cases**

***User Stories (Scenarios):***

1. Allows user to add employees
2. Allows user to add new store
3. Allows user to see existing stores
4. Allows users to see existing employees
5. Allows users to see weekly sales totals

***Example Database Queries:***

1. Find all employees that make > $9.00/hr
2. Find name of employees that worked on Monday
3. Find employee with ID X(any particular employee #)
4. Find the transaction total for Friday
5. Find out what skills employee X(any particular employee) has

Entity-Relation Diagram(ERD)

