Fawhn Hanlon

FALL 2019

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| ITEC 3200 |
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| Yoga Studio Database |

ITEC 3200

Executive Summary

**Objective**

This database is designed to aid any new yoga studio by cataloging information about their instructors, students, classes, and specialty events.

**Goals**

The goal with this database is to provide an easy and structured method of storing and retrieving the information necessary to run a successful yoga studio.

**Solution**

The solution is the creation of multiple database tables and the relationships between said tables. The tables include the following: *Instructor, Student, Class, Student-Class, Event,* and *Student-Event*. These tables represent the main entities and associative entities. Additional queries and reports will provide the needed information. It will be implemented in using Microsoft Access 2016.

**Benefits to Users**

This database will act as a tool for providing information in a simple and reliable fashion. It will help to simplify day-to-day operations like scheduling.

**Project Outline**

The project will contain the following major components:

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

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A screenshot of a cell phone

Description automatically generatedER Diagram/Schema

Instructor(Instructor\_ID, Instructor\_FirstName, Instructor\_LastName, Instructor\_Street, Instructor\_City, Instructor\_State, Instructor\_Zip, Instructor\_Phone, Instructor\_DOB, Instructor\_Pay )

Student(Student\_ID, Student\_FirstName, Student\_LastName, Student\_Street, Student\_City, Student\_State, Student\_Zip, Student\_Email, Student\_Phone)

Class(Class\_ID, Class\_Day\_Time, Class\_Type, Class\_Price, Class\_Length\_Hours, Class\_Instructor, INSTRUCTOR\_Instructor\_ID)

FK INSTRUCTOR\_Instructor\_ID 🡪 INSTRUCTOR

STUDENT-CLASS(STUDENT\_Student\_ID, CLASS\_Class\_ID )

FK STUDENT\_Student\_ID 🡪 STUDENT

FK CLASS\_Class\_ID 🡪 CLASS

EVENT(Event\_ID, Event\_Name, Event\_Day\_Time, Event\_Type, Event\_Price, INSTRUCTOR\_Instructor\_ID )

FK INSTRUCTOR\_Instructor\_ID 🡪 INSTRUCTOR

STUDENT-EVENT(STUDENT\_Student\_ID, EVENT\_Event\_ID )

FK STUDNET\_Student\_ID 🡪 STUDENT

FK EVENT\_Event\_ID 🡪 EVENT

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Query Implementation

### Query 1

* This query displays the students attending a meditation event who also take ashtanga yoga classes.

### Query 2

* This query displays all the yoga classes and the students taking those classes, sorted by yoga class in ascending order.

### Query 3

* This query displays class statistics—the class type, the number of students attending the class, price per student, and the total class revenue.

### Query 4

* This query displays the students attending the power yoga specialty event.

### Query 5

* This query displays all yoga instructors and their pay that are paid more than Rudy Coin.

### Query 6

* This query displays the yoga instructors, their salary, their class and date of class, and their total earnings for each class.

### Query 7

* This query displays the yoga instructor, the specialty event they’re leading and the students attending the event based on the Event ID entered. (Event ID is a number 1 through 8.)

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A screenshot of a social media post

Description automatically generatedForms and Reports

The Tabular Report contains all the information from the Instructors table. This information includes the Instructor ID, first and last name, and the address of each instructor as well as their phone number, date of birth and hourly pay. At the bottom of the report is the sum of all their salaries. The Group Report contains all information from the Instructors and Classes tables grouped by Instructor ID. This information includes the Instructor ID, first and last name, and the address of each instructor as well as their phone number, date of birth and hourly pay and their corresponding Class ID, date and time and the type of yoga class being taught.

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Web Page

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