**BAIS:3200 - Database Management:**

Due to exponentially growing computation power and storage capacity, as well as the as increasingly digital nature of business operations, modern organizations collect and store a wealth of data about their interactions with various stakeholders, including customers, employees, shareholders, government, and suppliers. It is critical to manage data effectively so that it supports business strategy and provides competitive advantage. In this class, we learn the core concepts needed to design and utilize database management systems (DBMS) and Structured Query Language (SQL).

**Students will learn:**

* Data modeling
* Relational database design and normalization
* Physical implementation of databases
* SQL language & syntax
* Database applications

**Students will be able to:**

* Draw Entity Relationship and Enhanced Entity Relationship diagrams to represent data and business rules
* Create logical models of databases, including normalization to third normal form
* Construct relational database tables with SQL commands
* Manipulate and load data into a database using database management software
* Perform SQL queries, including joins, subqueries, compound queries, and conditional logic
* Build a Web-based database application