YMCA of Metropolitan Los Angeles

Power BI Database for Executive Reporting

SPRING 2024 | DATABASE ADMINISTRATION | 3 STUDENTS

Three senior Information Systems students worked as a faculty-supervised database administration team with the YMCA of Metropolitan Los Angeles to develop a Microsoft Power BI database concept for executive reporting. The team documented business rules, modeled the data structure, planned implementation, and organized reporting and administration guidance for partner review.



YMCA Power BI database team presentation

PROJECT OBJECTIVE

Develop a Microsoft Power BI database approach for executive reporting, supported by business rules, conceptual and logical designs, implementation planning, and administration guidance.

STUDENT CONTRIBUTION

The team clarified data policies and reporting needs, modeled entities and relationships, developed a logical schema, considered physical implementation, and organized an approach for reports and database monitoring.

ARTIFACTS PRODUCED

- Business rules, assumptions, and constraints
- Conceptual design and entity-relationship diagram
- Logical schema and physical design plan
- Database implementation and reporting approach
- Administration guidance, final report, and presentation

COMMUNITY VALUE

The YMCA received a structured database and reporting concept that could support more consistent executive information and future implementation decisions.

LEARNING VALUE

Students applied data modeling, database design, implementation planning, reporting, administration, and client communication in a real organizational context.