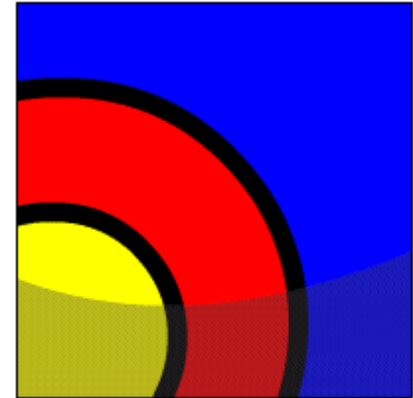


# Project Overview and Getting Started

## What Will I Learn?

**In this lesson, you will learn to:**

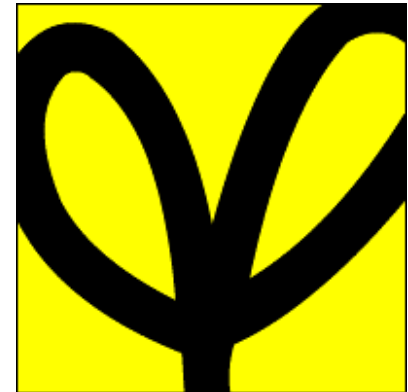
- Identify a data-modeling project to solve a business information need
- Demonstrate essential skills in solving business problems using technology and professionally presenting these solutions





## Why Learn It?

What if there were a competition to design a house, or a car, or a landmark that would be featured in your school campus? You have this great idea for a design and have drawn up the plans according to the specified requirements.

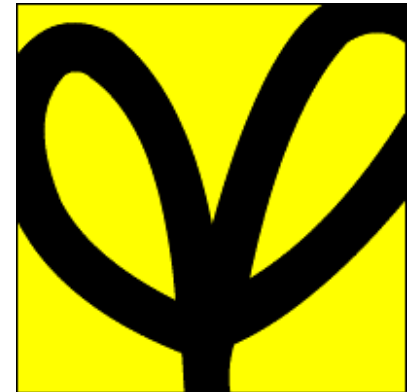


However, you don't have experience at presenting to a group of people. You are afraid or are not sure you know how to go up in front of the judging committee to explain your design.



## Why Learn It?

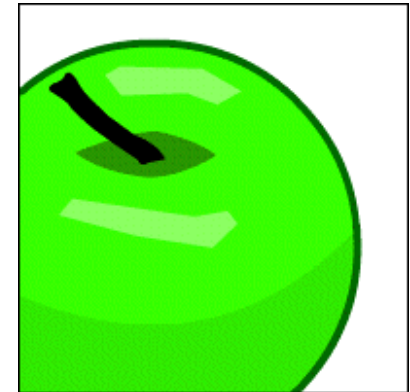
You don't know how to prepare written documentation to support your presentation. You would lose a big opportunity because of your lack of presentation skills.



You will encounter similar situations in school and at work. You may have the best idea or the correct solution, but you will not be recognized if you cannot present it.

## Tell Me / Show Me

You will now get a chance to integrate your knowledge of data modeling and hone your presentation skills by working on a final class project.

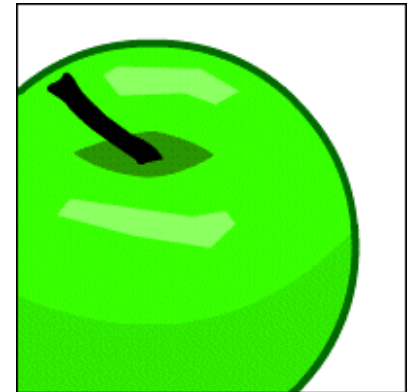


Working in groups, you will choose a scenario based on a real-world business example where a database would be needed.

## **Tell Me / Show Me**

Acting as consultants to this business, you will define the need for the database, identify the components, create an ERD, write documentation, and present your database design.

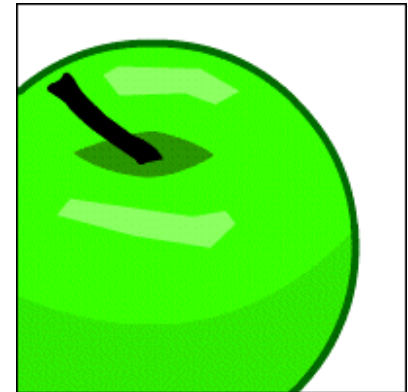
Each group will present its project results as a culminating activity for this course.



# Tell Me / Show Me

## Presentation Project Ideas

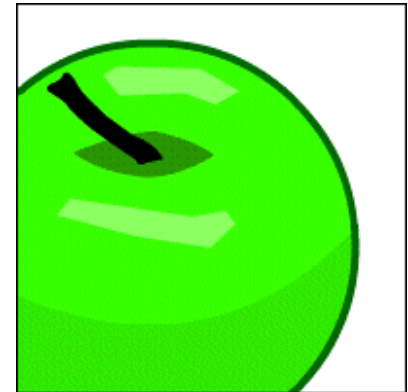
The purpose of the project is to combine what we have learned about modeling information with the development of presentation skills. Investigate the following categories to identify an area of interest. This will form the basis of your project. At the end of this course, you will give an oral presentation using visual aids to convince your audience that there's a real need for a database and that your company is the best one to design and implement it!



## Tell Me / Show Me

### Presentation Project Ideas

You will begin the project by choosing a topic with your group. You will then identify your "client's" business requirements by doing some research, creating an entity relationship diagram (ERD) and technical documentation explaining your design solution. Finally, your group will present your solution to the "client."

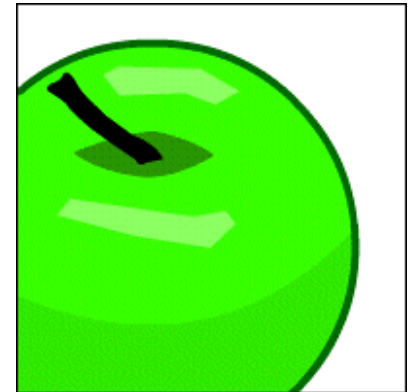




## Tell Me / Show Me

### Presentation Project Ideas

The following list below contains starting points for possible database systems. If you really think about it, any topic is a database waiting to happen. For additional ideas for your projects, flip through one of your favorite magazines or search online. Try to think of a database that would come in handy after you read an article. It's easy!

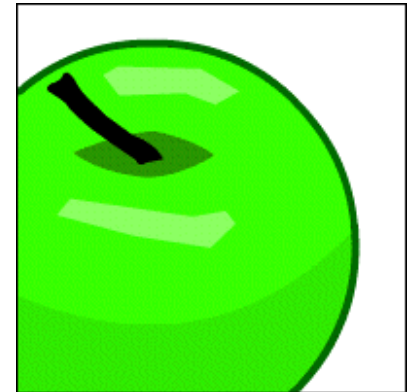


# Tell Me / Show Me

## Presentation Project Ideas

### Environmental

- Tracking forest fires: areas of country, acres of devastation, people injured, firefighter experience with forest fires
- Collecting data for fossil digs: types of fossils, locations on site
- Tracking earthquakes: areas of country, magnitudes, damage, animals predicting

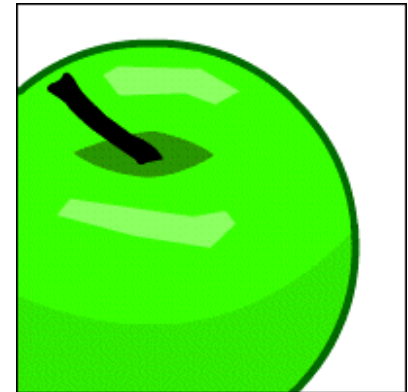


# Tell Me / Show Me

## Presentation Project Ideas

### Environmental

- Tracking volcanoes: areas of country, names, eruption dates, type of lava flow
- Documenting Recreational and scientific use of caves: study of bats in caves: types, locations, countries, safety
- Charting world oil pollution: areas, magnitude, occurrences, biggest offenders, clean-up efforts

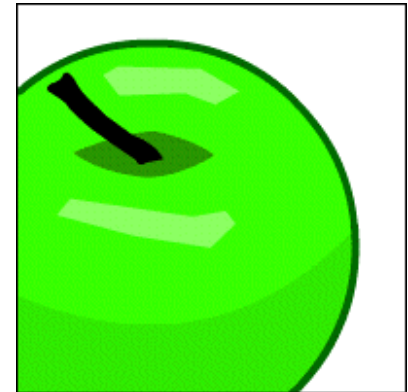


# Tell Me / Show Me

## Presentation Project Ideas

### Historical

- Building a presidential archive: letters, speeches, books
- Tracking the artifacts of a great leader: Mahatma Gandhi, Mother Teresa, Winston Churchill

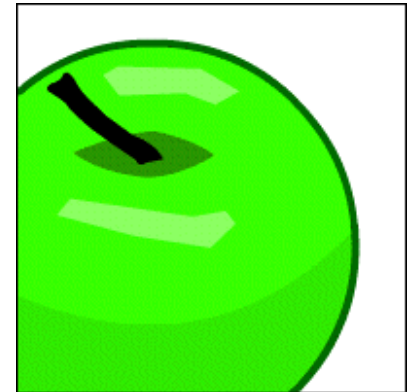


# Tell Me / Show Me

## Presentation Project Ideas

### Historical

- Exploring and categorizing information about a historical event/place for tourists or researchers: Battle of Bull Run, Great Wall of China, Stonehenge
- Designing a system to group artifacts/collections: tableware of the first ladies/queens, King Tutankhamen's tomb, barbie dolls



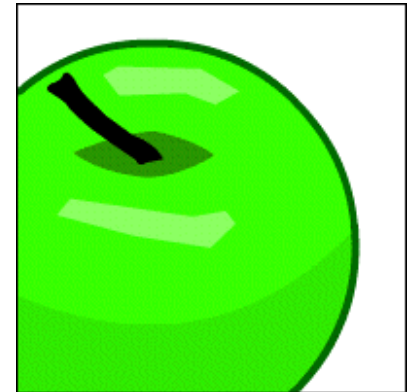
# Tell Me / Show Me

## Presentation Project Ideas

### Business

Collecting data for:

- Value of coin collections, stamp collections
- Children enrolled in a daycare
- Dog-obedience school
- Bed-and-breakfast lodging
- RV Park
- Putt-putt golf
- Pet store
- Organic farmer
- Egg farmer
- Pet sitter
- Limousine service
- Auto-body repair



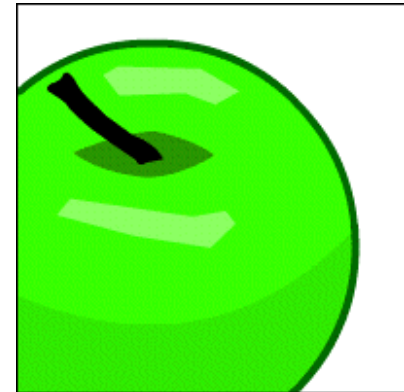
# Tell Me / Show Me

## Presentation Project Ideas

### Science

#### Collecting data on:

- Health: current world epidemics, statistics and locations, people affected, origins, causes, effects
- Energy: gas resources, geothermal, solar, wind
- Nuclear power plants
- Radio telescopes
- Marine aquarium
- Waves/tides/tsunamis
- Household chemicals: disposal



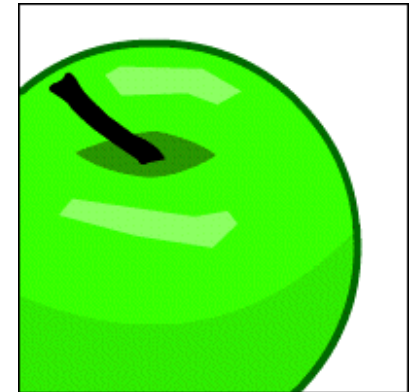
# Tell Me / Show Me

## Presentation Project Ideas

### Humanities

#### Collecting data for:

- Art museum
- Music collection of an orchestra or the church organist
- Church congregation
- Philosophers



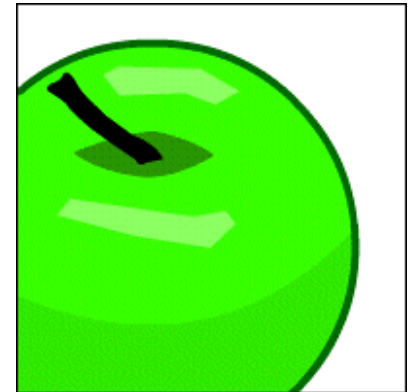
What ideas do you have? What do you want to know more about? Start there! There's definitely a database need around something that interests you.



## Tell Me / Show Me

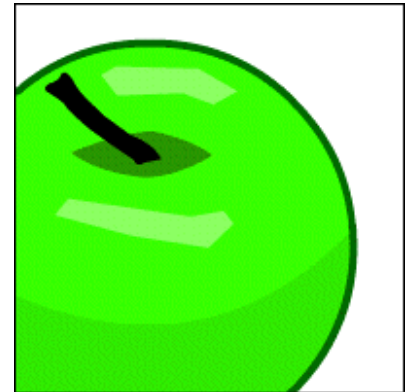
### Written Documentation

Your presentation must be accompanied by an ERD and written documentation that you will submit to the “client.” Your instructor will provide you with an example.



## **Tell Me / Show Me**

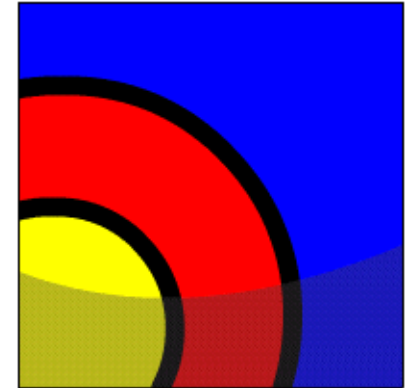
This Final Presentation Rubric will be used to evaluate your project.



## Summary

**In this lesson, you have learned to:**

- Identify a data-modeling project to solve a business information need
- Demonstrate essential skills in solving business problems using technology and professionally presenting these solutions



# Summary

## Practice Guide

The link for the lesson practice guide can be found in the course outline.

