

An abstract graphic on the left side of the slide, consisting of a network of white lines and circles on a blue gradient background. The lines are vertical and horizontal, with some diagonal branches, and the circles are of varying sizes, resembling a circuit board or a neural network diagram.

WEEK 1

WHO'S WHO?

STUDENT OBJECTIVES

- Upon completion of this video, you should be able to:
 - List the 4 roles that people could take on when working with a DBMS
 - List at least 2 responsibilities for each role

The background is a blue gradient. In the corners, there are white line-art illustrations of circuit boards or data paths, with lines connecting to small circles.

THE DAY TO DAY JOBS INVOLVING DATABASES

DATABASE ADMINISTRATORS (DBA)

Chief Responsibilities:

- **Giving new people access to the database (and revoking access)**
- **Installing and upgrading the DBMS**
- **Monitoring usage of DBMS**
- **Monitoring and improving performance**
- **Checking for security violations**
- **Backing up and restoring databases**

DATABASE DESIGNER

Chief Responsibilities:

- **Identifying all the data to be stored**
- **Identifying the relationships between the data**
- **Creating a model of the data**
- **Structuring the data (picking the tables and which tables to store the data in)**
- **Communicating with the end users to identify their needs**
- **Creating views of the data that satisfy the needs of the end users**

SYSTEM ANALYSIS AND APPLICATION PROGRAMMER

Chief Responsibilities:

- **Determine the needs of the end users**
- **Develop specs for the system**
- **Develop software that implement the specs using a programming language that will talk to the database**
- **Test the implementation**
- **Communicate with the end users**

END USERS

Chief Responsibilities:

- **Access the database by generating reports**
- **Access the database via the software create by the application programmers in order to update, maintain and query the database.**
- **Normally doesn't access the database directly but a standalone end user might if using a small personal database.**

The background is a blue gradient. In the corners, there are white line-art illustrations of circuit boards or neural networks, with lines and small circles representing nodes and connections.

WHAT ROLES WILL YOU TAKE ON IN THIS COURSE?