

A decorative graphic on the left side of the slide, consisting of white lines and circles on a blue gradient background, resembling a circuit board or a stylized tree structure.

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 neural networks, with lines and small circles representing nodes and connections.

THE DAY TO DAY JOBS INVOLVING DATABASES

DATABASE ADMINISTRATORS (DBA)

Chief Responsibilities: *running*

- 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: *creator*

- 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: *Figure user need; what is expected in database.*

- 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: *i.e. testing.*

- 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.

WHAT ROLES WILL YOU TAKE ON IN THIS COURSE?

in this course :

designing;

writing code;

end user;