KEY VOCABULARY FOR THE READING ACTIVITY #3: "WHAT IS DATA MANAGEMENT AND WHY IS IT IMPORTANT?"
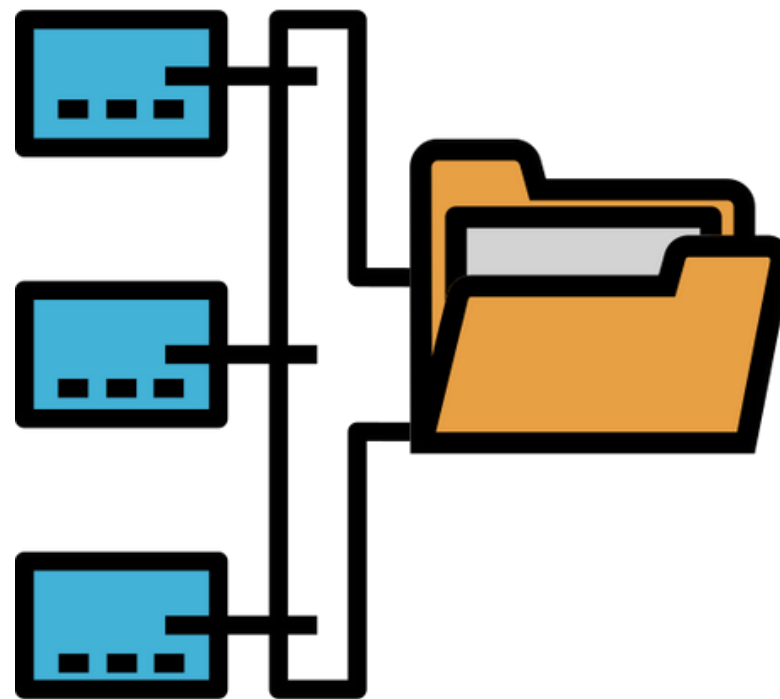
DATA MANAGEMENT:

THE PROCESS OF COLLECTING, KEEPING, AND USING DATA IN A COST-EFFECTIVE, SECURE, AND EFFICIENT MANNER. IT INVOLVES THE DEVELOPMENT OF ARCHITECTURES, POLICIES, PRACTICES, AND PROCEDURES TO MANAGE THE DATA LIFECYCLE.

DATA GOVERNANCE:

THE DEVELOPMENT OF PROCESSES AND BEST PRACTICES REGARDING THE AVAILABILITY, INTEGRITY, SECURITY, AND USABILITY OF AN ORGANIZATION'S DATA.
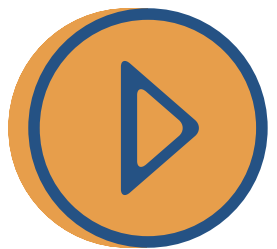
DATAOPS:

ALSO KNOWN AS DATA OPERATIONS, IT INVOLVES IMPLEMENTING AGILE METHODS TO DESIGN, DEPLOY, AND MANAGE APPLICATIONS ON A DISTRIBUTED ARCHITECTURE, AIMING TO IMPROVE THE ENTIRE DATA LIFECYCLE.

DATA MODELING:

THE PRACTICE OF DETERMINING, THROUGH EXTENSIVE DATA ANALYSIS, WHAT IS NECESSARY TO ALIGN BUSINESS OBJECTIVES WITH THE INFORMATION SYSTEMS THE BUSINESS RUNS ON. IT OFTEN INVOLVES CREATING CONCEPTUAL DIAGRAMS TO REPRESENT DATASETS AND WORKFLOWS.

BIG DATA:

LARGE VOLUMES OF DATA, TYPICALLY CHARACTERIZED BY HIGH VOLUME, VELOCITY, AND VARIETY. EFFICIENT DATA MANAGEMENT SYSTEMS ARE CRUCIAL FOR TURNING BIG DATA INTO ACTIONABLE INSIGHTS FOR DECISION-MAKING.