



Course Competency Report by Code

Code: BQV1

Database Design (BQV1)

Course of Study: BQV1 - Database Design
 Course Level: Undergraduate
 Course Division: Lower Division Major
 Discipline: Information Technology
 Course Type: One Assessment
 Department: Information Technology

COMPETENCY #	COMPETENCY NAME	COMPETENCY TEXT
431.3.1	Database Structure	The graduate identifies, describes, and explains the structure and architectural components of a database management system (DBMS).
431.3.2	Database Installation & Configuration	The graduate selects appropriate tools and application software for installation on host machines.
431.3.3	Maintain Control Tools	The graduate demonstrates how to maintain control tools.
431.3.4	Sever Configuration & Task Management	The graduate configures servers and manages tasks associated with server functions.
431.3.5	Application, Secure Access, Authentication Management, & Single Sign-on Deployment	The graduate identifies application software, configures secure access, manages authentication, and deploys single-sign-on technology.
431.3.6	Tablespace Management	The graduate manages tablespaces and data files.
431.3.7	Data & Database Management	The graduate identifies and applies appropriate techniques for managing data within databases.
431.3.8	Create a Database	The graduate creates and manages databases.
431.3.9	Management of Log Files	The graduate manages redo log files.
431.3.10	Storage Structures & Relationships	The graduate identifies storage structures and relationships within databases.
431.3.11	Data Integrity	The graduate demonstrates how to undo data changes and maintain data integrity.
431.3.12	Index Management	The graduate manages various indexes.



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431.3.13	Data Dictionary	The graduate identifies content, usage, and profiles for data dictionaries.
431.3.14	User Management	The graduate describes how to create and manage users, privileges, and password security in databases.
431.3.15	User Security	The graduate manages user security on a database.
431.3.16	Backup and Recovery	The graduate performs database backup and recovery operations for a given database.