

The background is a light gray gradient. It is decorated with several realistic water droplets of various sizes, some with highlights and shadows, scattered across the surface. In the upper center, there is a faint, circular watermark. This watermark contains a diagram of a database structure with a central node and several surrounding nodes connected by lines, resembling a star or snowflake schema.

RELATIONAL DATABASES

CRUD ANALYSIS

OBJECTIVES

- CREATE AN ER MODELS THAT REFLECT ALL BUSINESS RULES
- IDENTIFY THE CREATE, RETRIEVE, UPDATE AND DELETE (CRUD) REQUIREMENTS OF THE BUSINESS
- VALIDATE THE ER MODEL USING CRUD ANALYSIS

PURPOSE

- FROM THE BUSINESS SCENARIOS AND BUSINESS RULES YOU BUILD THE ERD
- THE ERD IS A TOOL FOR DISCUSSIONS WITH THE CLIENT TO ENSURE IT REPRESENTS THE BUSINESS NEEDS
- IT IS ALSO THE BLUEPRINT FOR THE DBA TO BUILD THE DATABASE
- CRUD ANALYSIS HELPS TO CHECK THAT YOU HAVEN'T MISSED ANY ENTITIES OR RELATIONSHIPS AND TO MAKE SURE YOU HAVEN'T ADDED ANYTHING UNNECESSARY

CRUD ANALYSIS

- CREATE, RETRIEVE, UPDATE, DELETE
- FOUR BASIC FUNCTIONS/OPERATIONS THAT A DATABASE ALLOWS
- IMPORTANT TO CHECK THAT ALL OF THESE FUNCTIONS ARE POSSIBLE ON ALL ASPECTS OF THE BUSINESS SCENARIO AND REPRESENTED ON THE ERD

CRUD ANALYSIS

- CREATE: INPUT, ENTER, LOAD, IMPORT, RECORD, CREATE
 - RETRIEVE: VIEW, REPORT, BRING UP, PRINT, FIND, READ, LOOK UP
 - UPDATE: CHANGE, MODIFY, ALTER, UPDATE
 - DELETE: DISCARD, REMOVE, TRASH, PURGE, DELETE
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- ALL KEYWORDS TO LOOK AND LISTEN FOR IN CLIENT INTERVIEWS.