

Database Design & Development – Higher Checklist

Topic	Database and Design Development	Tick
Analysis	Identify the end-user and functional requirements of a database problem that relates to the implementation at this level.	
Design	Describe and exemplify entity-relationship diagrams with three or more entities, indicating: - entity name - attributes - name of relationship - cardinality of relationship - one-to-one - one-to-many - many-to-many	
	Describe and exemplify an instance using an entity-occurrence diagram.	
	Describe and exemplify a compound key.	
	Describe and exemplify a data dictionary with three or more entities: - entity name - attribute name - primary and foreign key - attribute type: - text - number - date - time - Boolean - attribute size - validation: - presence check - restricted choice - field length - range	
	Exemplify a design of a solution to a query: - tables and queries - fields - search criteria - sort order - calculations - grouping	
Implementation	Describe, exemplify and use SQL operations for pre-populated relational databases, with three or more linked tables: - UPDATE, SELECT, DELETE, INSERT statements making use of: - Wildcards (* ?) - aggregate functions - MIN - MAX - AVG - SUM - COUNT - computed values - AS (alias) - GROUP BY - ORDER BY - WHERE	
	Read and explain code that makes use of the above SQL.	
Testing	Describe and exemplify testing: SQL operations work correctly at this level	
Evaluation	Evaluate solution at this level in terms of: - fitness for purpose - accuracy of output	