



Australian Government

Assessment Requirements for ICTWEB425 Apply structured query language to extract and manipulate data

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Performance Evidence

Evidence of the ability to:

- identify structured query language (SQL) requirements
- create the databases and tables
- generate queries for one or more tables, to provide the required data
- add, modify and delete records from the database tables
- test and verify SQL statements.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- explain the features and application of the following aggregate functions:
 - MIN
 - MAX
 - SUM
 - AVG
 - COUNT
 - COUNT(*)
- explain the features and application of the following clause functions:
 - GROUP BY
 - HAVING
 - ORDER BY
 - dates and times
 - SQL data types
 - numbers

- text
- SQL syntax:
- SELECT
- FROM
- WHERE
- LIKE
- DISTINCT
- CREATE
- ALTER TABLE
- INSERT INTO
- UPDATE
- DELETE
- DROP
- describe the principles of “combining and/or condition” in SQL statements and Boolean operators:
 - IN and BETWEEN conditional operators
 - mathematical operators
 - table joins (relationships).

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the website technologies field of work, and include access to:

- a development environment
- a database server.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>