



**Australian Government**

**Assessment Requirements for ICTWEB451  
Apply structured query language in  
relational databases**

**Release: 1**

# Assessment Requirements for ICTWEB451 Apply structured query language in relational databases

## Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 6.0.

## Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- apply structured query language (SQL) to a relational database and gather required information according to task requirements.

In the course of the above, the candidate must:

- generate queries for one or more tables and provide required data
- add, modify, retrieve and delete records from database tables as required test and verify SQL statements.

## Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- organisational policies and procedures relating to SQL application including:
  - identifying SQL requirements from job specifications
  - testing and verifying SQL results
- features and application of primary and foreign keys in database tables, aggregate functions and clause functions required in SQL application
- principles of “combining and/or condition” in SQL statements and Boolean operators
  - IN and BETWEEN conditional operators
  - mathematical operators
  - table joins (relationships)
- documentation techniques relevant to applying structured query language in relational databases
- SQL statement testing methodologies.

## Assessment Conditions

Skills in this unit must be demonstrated in a workplace or simulated environment where the conditions are typical of those in a working environment in this industry.

This includes access to:

- task specification documentation
- structured query language (SQL)
- industry standard software packages
- an integrated development environment (IDE)
- a database server
- required hardware, software and its component.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volume Implementation Guide is found on VETNet -

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