Task 1 Select from One Table and Use a Where Clause.

This was the only task I was unable to complete.

Task 2 Query that Joins Tables with Inner Join

Graphical user interface

Description automatically generated

Task 3 Count Query for Inner Join (A join B)

Graphical user interface, text, application, email

Description automatically generated

Task 4 Write About It

Text, letter

Description automatically generated

Task 5 Query that Joins Tables with Inner Join in Reverse Order (B join A)

Graphical user interface, text, application, email

Description automatically generated

Task 6 Count Query for Inner Join (B join A)

Graphical user interface, text, application, email

Description automatically generated

Task 7 Compare A join B to B join A - Write About It

Text, letter

Description automatically generated

Task 8 X Inner Join

Table

Description automatically generated

Task 9 X Left Outer Join

Table

Description automatically generated

Task 10 X Right Outer Join

Graphical user interface

Description automatically generated with medium confidence

Task 11 X Full Join Y

Graphical user interface, application

Description automatically generated

Task 12 Write About Your Observations - Compare Inner, Outer, and Full Joins

Text, letter

Description automatically generated

Task 13 Compare Inner, Outer, and Full Joins Based on Counts

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text, letter

Description automatically generated

Task 14 Q Inner Join R

Table

Description automatically generated with medium confidence

Task 15 Q Left Outer Join R

Graphical user interface

Description automatically generated with low confidence

Task 16 Q Right Outer Join R

A picture containing graphical user interface

Description automatically generated

Task 17 Q Full Join R

Table

Description automatically generated with medium confidence

Task 18 Compare Inner, Outer, and Full Joins Based on Counts

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Task 19 Write About It

(a) The Task 8 X Inner Join Y query retrieves data for [configuration item's]

in inventory that are assigned to an [employee's] for use or support.

Information about configuration items in inventory is in the [ci\_inventory]

table and information about assignment of a configuration item to an

employee is in the [employee\_ci] table, which is an association table.

(b) The Task 9 X Left Outer Join Y query retrieves data for all

[configuration item's] in inventory and it retrieves corresponding data about

the assignment of a configuration item to an [employee] for

use or support even if there has not been an [assignment] of that

configuration item to an employee for use or support. If there has not

been an [assignment] of the configuration item to an employee for

[use or support], then the fields retrieved about assignment show

[(null)] as the value.

(c) The Task 10 X Right Outer Join Y query retrieves data about all

[assignments] of [configuration item's] to an employee for use or support. The

results are the same as those for the Task 8 X Inner Join Y query because the

field [ci\_inv\_id] in the association table [employee\_ci] is required.

(d) The Task 11 X Full Join Y query retrieves data about all [assignments]

of [configuration item's] to an employee for use or support and it returns rows

for configuration items that have not been assigned to an [employee] for

use or support as well. The results are the same those for the

Task 9 X Left Outer Join Y query because the field [ci\_inv\_id] in the

association table [employee\_ci] is required and constrained by the foreign

key relationship between the two tables.

(e) The Task 14 Q Inner Join R query retrieves data for [employee's] that

have been assigned a [configuration item] from inventory for their

use on the job or because they work for IT and support it. Information about

employees is in the [employee] table and information about assignment of

a configuration item to an employee is in the [employee\_ci] table, which is

an association table.

(f) The Task 15 Q Left Outer Join R query retrieves data for all

[employee's] and it retrieves corresponding data about the

[assignment] of a configuration item to an employee for use or support

even if there has not been an [assignment] of any configuration item to

that [employee] for use or support. If there has not been an

[assignment] of any configuration item to that employee for use or support,

then the fields retrieved about assignment show [(null)] as the value.

(h) The Task 17 Q Full Join R query retrieves data about all [assignments]

of [configuration item's] to an employee for use or support and it returns rows

for employees that have not been assigned any configuration item for

[use or support] as well. The results are the same as those for the

Task 15 Q Left Outer Join R query becuase the field [emp\_id] in the

association table [employee\_ci] is required and constrained by the foreign

key relationship between the two tables.

Task 20 Write a business reason for a SQL data retrieval command

This SQL data retrieval command can be used to track the health of the configuration items in the inventory. This data retrieval tool can also be used to find assets that are not currently being used or supported. If the field reads (null) than that configuration item is available. It will also report whether the device is working, in repair, or disposed of.

Graphical user interface, application, table

Description automatically generated