**Activity: Complete a SQL join scenario**

**Task 1. Match employees to their machines**

To identify which employees are using which machines. The data is in the machines and employees tables.

A SQL inner join to return the records based on a connecting column. In this scenario, both tables include the device\_id column.

A screen shot of a computer

Description automatically generated with low confidence

**Task 2. Return more data**

Return the information on all machines and the employees who have machines with a left join. Next, conduct a right join to retrieve the information of all employees and any machines that are assigned to them.

The results will include all records that are linked from the joins using the common device\_id column.

A picture containing text, screenshot, font

Description automatically generated

Right Join:

A screen shot of a computer

Description automatically generated with low confidence

**Task 3. Retrieve login attempt data**

To continue investigating the security incident, information was retrieved on all employees who have made login attempts. This was achieved by performing an inner join on the employees and log\_in\_attempts tables, linking them on the common username column.

A picture containing text, screenshot, font

Description automatically generated