**18.4.3.1. Inner Join**

Use an inner join on seeds and garden\_bed to see which plants we have seeds for and are in our garden bed.

select \* from garden\_bed inner join seeds on seeds.plant\_id = garden\_bed.plant\_id;

Graphical user interface, table

Description automatically generated

**18.4.3.2. Left Join**

Write a query that joins seeds and garden\_bed with a left join to see all of the seeds we have and any matching plants in the garden bed.

select \* from garden\_bed left join seeds on seeds.plant\_id = garden\_bed.plant\_id;

Table

Description automatically generated

or

select seed\_id, expiration\_date, quantity,garden\_bed.plant\_id, reorder from garden\_bed left join seeds on seeds.plant\_id = garden\_bed.plant\_id;

Table

Description automatically generated

### 18.4.3.3. Right Join

Write a query that joins seeds and garden\_bed with a right join to see all the plants in the garden bed and any matching seeds we have.

select plant\_name,plant.plant\_id, zone, season from garden\_bed right join plant on plant.plant\_id = garden\_bed.plant\_id;

Graphical user interface, application

Description automatically generated

### 18.4.3.4. Full Join

### Write a query that joins seeds and garden\_bed with a full join.

### select \* from garden\_bed left join seeds on seeds.plant\_id = garden\_bed.plant\_id

### union

### select \* from garden\_bed right join seeds on seeds.plant\_id = garden\_bed.plant\_id;

### Table Description automatically generated

### Or

### SELECT \*

### FROM garden\_bed

### FULL JOIN seeds

### ON seeds.plant\_id = full.plant\_id ;

### (full join will work . This is not a bug. there is no "FULL JOIN" in MariaDB, so when you specify a full join b, "full" is parsed as an alias for the table "a". That's why a full join b on a.aa = bb fails, but a full join b on full.aa = bb should work.)

### Table Description automatically generated

## **18.4.4. Sub-Queries and Complex Queries**

### SELECT \*

### FROM plant

### WHERE plant\_id IN (SELECT plant\_id

### FROM seeds);

### Graphical user interface, application Description automatically generated