Lesson notes - basic project complete!

Well done on completing the basic dbt project! So far, we've made 3 stating models, 1 intermediate model, and 1 mart model. We've also added some basic out of the box dbt tests - not_null, unique, accepted_values, and relationships.

If you want to do a full run (drop and replace the tables in BigQuery) then you will want to:

1. Clean and reinstall dbt packages. This isn't mandatory every time you run dbt! Just the first time, or if you change your packages

```
dbt clean && dbt deps
```

2. Run all of your models

```
dbt run
```

You can select specific models, e.g. dbt run -s stg_ecommerce_orders. Remember, dbt will fail if you run a model containing a {{ ref() }} where the table hasn't been created in BigQuery. For example, if I ran dbt run -s orders and I hadn't created any of the tables it depended on - then it would fail!

3. Run all of your tests

```
dbt test
```

Again, you can use the selector -s to pick which model to test, or just test everything.

A side note on dbt build

For example, dbt run -s stg_ecommerce_products int_ecommerce_order_items_products followed by dbt test -s stg_ecommerce_products int_ecommerce_order_items_products would, in order:

- Run stg_ecommerce_products first
- Run int_ecommerce_order_items_products, as it depends on stg_ecommerce_products
- Test stg_ecommerce__products
- Test int_ecommerce__order_items_products

Whereas if you instead did dbt build -s stg_ecommerce_products int_ecommerce_order_items_products it Would:

- Run stg_ecommerce_products first
- Test stg_ecommerce__products
- Run int_ecommerce_order_items_products, as it depends on stg_ecommerce_products
- Test int_ecommerce__order_items_products

If we instead did dbt build on 2 models that weren't dependent on one another, such as

stg_ecommerce_products and stg_ecommerce_orders, it would run them in **parallel** then test them in **parallel**.