Before tackling the assignment, run the following in a SQL Worksheet in Snowsight.

This code might look both overwhelming and boring (which is a unique combination!), but trust me, copying and pasting this code and just running it is an important step. It will load all the data you need to work for this assignment—and more importantly, it will load the data you’ll need for pretty much all of the following assignments!

You don’t have to understand it for the moment—by the end of the course, it will make sense. Just go ahead and run it.

And don't worry if this code differs a little bit from the code we ran in the video -- that's on purpose. (For example, we'll use an XL warehouse here, and not the 3XL we used in the video.)

USE ROLE accountadmin;

/\*--

database, schema and warehouse creation

--\*/

-- create tasty\_bytes database

CREATE OR REPLACE DATABASE tasty\_bytes;

-- create raw\_pos schema

CREATE OR REPLACE SCHEMA tasty\_bytes.raw\_pos;

-- create raw\_customer schema

CREATE OR REPLACE SCHEMA tasty\_bytes.raw\_customer;

-- create harmonized schema

CREATE OR REPLACE SCHEMA tasty\_bytes.harmonized;

-- create analytics schema

CREATE OR REPLACE SCHEMA tasty\_bytes.analytics;

-- create warehouse for ingestion

CREATE OR REPLACE WAREHOUSE demo\_build\_wh

WAREHOUSE\_SIZE = 'xlarge'

WAREHOUSE\_TYPE = 'standard'

AUTO\_SUSPEND = 60

AUTO\_RESUME = TRUE

INITIALLY\_SUSPENDED = TRUE;

/\*--

file format and stage creation

--\*/

CREATE OR REPLACE FILE FORMAT tasty\_bytes.public.csv\_ff

type = 'csv';

CREATE OR REPLACE STAGE tasty\_bytes.public.s3load

url = 's3://sfquickstarts/tasty-bytes-builder-education/'

file\_format = tasty\_bytes.public.csv\_ff;

/\*--

raw zone table build

--\*/

-- country table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.country

(

country\_id NUMBER(18,0),

country VARCHAR(16777216),

iso\_currency VARCHAR(3),

iso\_country VARCHAR(2),

city\_id NUMBER(19,0),

city VARCHAR(16777216),

city\_population VARCHAR(16777216)

);

-- franchise table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.franchise

(

franchise\_id NUMBER(38,0),

first\_name VARCHAR(16777216),

last\_name VARCHAR(16777216),

city VARCHAR(16777216),

country VARCHAR(16777216),

e\_mail VARCHAR(16777216),

phone\_number VARCHAR(16777216)

);

-- location table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.location

(

location\_id NUMBER(19,0),

placekey VARCHAR(16777216),

location VARCHAR(16777216),

city VARCHAR(16777216),

region VARCHAR(16777216),

iso\_country\_code VARCHAR(16777216),

country VARCHAR(16777216)

);

-- menu table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.menu

(

menu\_id NUMBER(19,0),

menu\_type\_id NUMBER(38,0),

menu\_type VARCHAR(16777216),

truck\_brand\_name VARCHAR(16777216),

menu\_item\_id NUMBER(38,0),

menu\_item\_name VARCHAR(16777216),

item\_category VARCHAR(16777216),

item\_subcategory VARCHAR(16777216),

cost\_of\_goods\_usd NUMBER(38,4),

sale\_price\_usd NUMBER(38,4),

menu\_item\_health\_metrics\_obj VARIANT

);

-- truck table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.truck

(

truck\_id NUMBER(38,0),

menu\_type\_id NUMBER(38,0),

primary\_city VARCHAR(16777216),

region VARCHAR(16777216),

iso\_region VARCHAR(16777216),

country VARCHAR(16777216),

iso\_country\_code VARCHAR(16777216),

franchise\_flag NUMBER(38,0),

year NUMBER(38,0),

make VARCHAR(16777216),

model VARCHAR(16777216),

ev\_flag NUMBER(38,0),

franchise\_id NUMBER(38,0),

truck\_opening\_date DATE

);

-- order\_header table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.order\_header

(

order\_id NUMBER(38,0),

truck\_id NUMBER(38,0),

location\_id FLOAT,

customer\_id NUMBER(38,0),

discount\_id VARCHAR(16777216),

shift\_id NUMBER(38,0),

shift\_start\_time TIME(9),

shift\_end\_time TIME(9),

order\_channel VARCHAR(16777216),

order\_ts TIMESTAMP\_NTZ(9),

served\_ts VARCHAR(16777216),

order\_currency VARCHAR(3),

order\_amount NUMBER(38,4),

order\_tax\_amount VARCHAR(16777216),

order\_discount\_amount VARCHAR(16777216),

order\_total NUMBER(38,4)

);

-- order\_detail table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_pos.order\_detail

(

order\_detail\_id NUMBER(38,0),

order\_id NUMBER(38,0),

menu\_item\_id NUMBER(38,0),

discount\_id VARCHAR(16777216),

line\_number NUMBER(38,0),

quantity NUMBER(5,0),

unit\_price NUMBER(38,4),

price NUMBER(38,4),

order\_item\_discount\_amount VARCHAR(16777216)

);

-- customer loyalty table build

CREATE OR REPLACE TABLE tasty\_bytes.raw\_customer.customer\_loyalty

(

customer\_id NUMBER(38,0),

first\_name VARCHAR(16777216),

last\_name VARCHAR(16777216),

city VARCHAR(16777216),

country VARCHAR(16777216),

postal\_code VARCHAR(16777216),

preferred\_language VARCHAR(16777216),

gender VARCHAR(16777216),

favourite\_brand VARCHAR(16777216),

marital\_status VARCHAR(16777216),

children\_count VARCHAR(16777216),

sign\_up\_date DATE,

birthday\_date DATE,

e\_mail VARCHAR(16777216),

phone\_number VARCHAR(16777216)

);

/\*--

harmonized view creation

--\*/

-- orders\_v view

CREATE OR REPLACE VIEW tasty\_bytes.harmonized.orders\_v

AS

SELECT

oh.order\_id,

oh.truck\_id,

oh.order\_ts,

od.order\_detail\_id,

od.line\_number,

m.truck\_brand\_name,

m.menu\_type,

t.primary\_city,

t.region,

t.country,

t.franchise\_flag,

t.franchise\_id,

f.first\_name AS franchisee\_first\_name,

f.last\_name AS franchisee\_last\_name,

l.location\_id,

cl.customer\_id,

cl.first\_name,

cl.last\_name,

cl.e\_mail,

cl.phone\_number,

cl.children\_count,

cl.gender,

cl.marital\_status,

od.menu\_item\_id,

m.menu\_item\_name,

od.quantity,

od.unit\_price,

od.price,

oh.order\_amount,

oh.order\_tax\_amount,

oh.order\_discount\_amount,

oh.order\_total

FROM tasty\_bytes.raw\_pos.order\_detail od

JOIN tasty\_bytes.raw\_pos.order\_header oh

ON od.order\_id = oh.order\_id

JOIN tasty\_bytes.raw\_pos.truck t

ON oh.truck\_id = t.truck\_id

JOIN tasty\_bytes.raw\_pos.menu m

ON od.menu\_item\_id = m.menu\_item\_id

JOIN tasty\_bytes.raw\_pos.franchise f

ON t.franchise\_id = f.franchise\_id

JOIN tasty\_bytes.raw\_pos.location l

ON oh.location\_id = l.location\_id

LEFT JOIN tasty\_bytes.raw\_customer.customer\_loyalty cl

ON oh.customer\_id = cl.customer\_id;

-- loyalty\_metrics\_v view

CREATE OR REPLACE VIEW tasty\_bytes.harmonized.customer\_loyalty\_metrics\_v

AS

SELECT

cl.customer\_id,

cl.city,

cl.country,

cl.first\_name,

cl.last\_name,

cl.phone\_number,

cl.e\_mail,

SUM(oh.order\_total) AS total\_sales,

ARRAY\_AGG(DISTINCT oh.location\_id) AS visited\_location\_ids\_array

FROM tasty\_bytes.raw\_customer.customer\_loyalty cl

JOIN tasty\_bytes.raw\_pos.order\_header oh

ON cl.customer\_id = oh.customer\_id

GROUP BY cl.customer\_id, cl.city, cl.country, cl.first\_name,

cl.last\_name, cl.phone\_number, cl.e\_mail;

/\*--

analytics view creation

--\*/

-- orders\_v view

CREATE OR REPLACE VIEW tasty\_bytes.analytics.orders\_v

COMMENT = 'Tasty Bytes Order Detail View'

AS

SELECT DATE(o.order\_ts) AS date, \* FROM tasty\_bytes.harmonized.orders\_v o;

-- customer\_loyalty\_metrics\_v view

CREATE OR REPLACE VIEW tasty\_bytes.analytics.customer\_loyalty\_metrics\_v

COMMENT = 'Tasty Bytes Customer Loyalty Member Metrics View'

AS

SELECT \* FROM tasty\_bytes.harmonized.customer\_loyalty\_metrics\_v;

/\*--

raw zone table load

--\*/

USE WAREHOUSE demo\_build\_wh;

-- country table load

COPY INTO tasty\_bytes.raw\_pos.country

FROM @tasty\_bytes.public.s3load/raw\_pos/country/;

-- franchise table load

COPY INTO tasty\_bytes.raw\_pos.franchise

FROM @tasty\_bytes.public.s3load/raw\_pos/franchise/;

-- location table load

COPY INTO tasty\_bytes.raw\_pos.location

FROM @tasty\_bytes.public.s3load/raw\_pos/location/;

-- menu table load

COPY INTO tasty\_bytes.raw\_pos.menu

FROM @tasty\_bytes.public.s3load/raw\_pos/menu/;

-- truck table load

COPY INTO tasty\_bytes.raw\_pos.truck

FROM @tasty\_bytes.public.s3load/raw\_pos/truck/;

-- customer\_loyalty table load

COPY INTO tasty\_bytes.raw\_customer.customer\_loyalty

FROM @tasty\_bytes.public.s3load/raw\_customer/customer\_loyalty/;

-- order\_header table load

COPY INTO tasty\_bytes.raw\_pos.order\_header

FROM @tasty\_bytes.public.s3load/raw\_pos/subset\_order\_header/;

-- order\_detail table load

COPY INTO tasty\_bytes.raw\_pos.order\_detail

FROM @tasty\_bytes.public.s3load/raw\_pos/subset\_order\_detail/;

DROP WAREHOUSE demo\_build\_wh;