

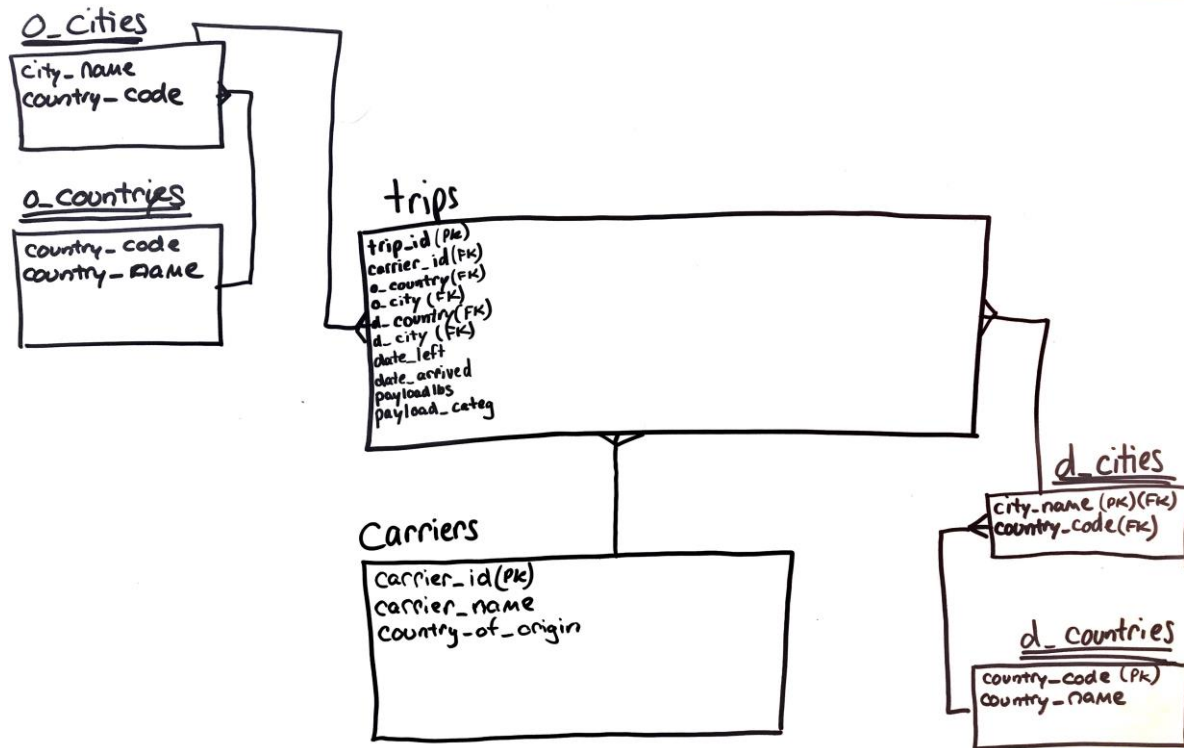


Module 10

Assignment 2 - Shipment DW

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My Intended DW



Trips are times a “ship” goes from one city in a country to another city in another country by a particular carrier, carrying x amount of lbs of a payload that is categorized.

```

8 SELECT * FROM o_countries;
9 CREATE TABLE o_countries (
10     country_code VARCHAR (4) PRIMARY KEY,
11     country_name VARCHAR (20));
12
13 INSERT INTO
14     o_countries(country_code, country_name)
15 VALUES
16     ('EGY', 'Egypt'),
17     ('SUD', 'Sudan'),
18     ('CAN', 'Canada'),
19     ('COL', 'Colombia');
--

```

	country_code [PK] character varying (4)	country_name character varying (20)
1	EGY	Egypt
2	SUD	Sudan
3	CAN	Canada
4	COL	Colombia

```

21 SELECT * FROM o_cities;
22
23 CREATE TABLE o_cities (
24     city_name VARCHAR (20) PRIMARY KEY,
25     country_code VARCHAR (20));
26
27 ALTER TABLE o_cities
28 ADD CONSTRAINT fk_country
29 FOREIGN KEY (country_code)
30 REFERENCES o_countries (country_code);
31
32
33 INSERT INTO
34     o_cities(city_name, country_code)
35 VALUES
36     ('Cairo', 'EGY'),
37     ('Port Sudan', 'SUD'),
38     ('Victoria', 'CAN'),
39     ('Buenaventura', 'COL');

```

	city_name [PK] character varying (20)	country_code character varying (20)
1	Cairo	EGY
2	Port Sudan	SUD
3	Victoria	CAN
4	Buenaventura	COL

MADE
MY *ORIGIN*
CITIES AND
COUNTRIES
TABLES

```

41 SELECT * FROM d_countries;
42 CREATE TABLE d_countries (
43     country_code VARCHAR (4) PRIMARY KEY,
44     country_name VARCHAR (20));
45
46 INSERT INTO
47     d_countries(country_code, country_name)
48 VALUES
49     ('SPA', 'Spain'),
50     ('QAT', 'Qatar'),
51     ('JAP', 'Japan'),

```

	country_code [PK] character varying (4)	country_name character varying (20)
1	SPA	Spain
2	QAT	Qatar
3	JAP	Japan
4	CHL	Chile

```

53 -----
54 SELECT * FROM d_cities;
55
56 CREATE TABLE d_cities (
57     city_name VARCHAR (20) PRIMARY KEY,
58     country_code VARCHAR (20));
59
60 ALTER TABLE d_cities
61 ADD CONSTRAINT fk_country
62 FOREIGN KEY (country_code)
63 REFERENCES d_countries (country_code);
64
65 INSERT INTO
66     d_cities(city_name, country_code)
67 VALUES
68     ('Malaga', 'SPA'),
69     ('Doha', 'QAT'),
70     ('Tokyo', 'JAP'),
71     ('Antofagasta', 'CHL');
72 -----

```

	country_code [PK] character varying (4)	country_name character varying (20)
1	SPA	Spain
2	QAT	Qatar
3	JAP	Japan
4	CHL	Chile

MADE
MY
DESTINATION
CITIES AND
COUNTRIES
TABLES

```
72  
73 SELECT * FROM carriers;  
74 CREATE TABLE carriers (  
75     carrier_name VARCHAR (20) PRIMARY KEY,  
76     country_origin VARCHAR (20));  
77 INSERT INTO  
78     carriers(carrier_name, country_origin)  
79 VALUES  
80     ('FlexShip', 'USA'),  
81     ('WorldSend', 'UK'),  
82     ('Mundivia', 'MEX'),  
83     ('Pascalle', 'NED');  
84
```

	country_code [PK] character varying (4)	country_name character varying (20)
1	SPA	Spain
2	QAT	Qatar
3	JAP	Japan
4	CHL	Chile

MADE MY CARRIERS TABLE

```
SELECT * FROM trips;
```

```
CREATE TABLE trips (  
  trip_id int PRIMARY KEY,  
  carrier_id VARCHAR (20),  
  origin_country VARCHAR (40),  
  origin_city VARCHAR (40),  
  destination_country VARCHAR (40),  
  destination_city VARCHAR (40),  
  date_left DATE,  
  date_arrived DATE,  
  payloadlbs INT,  
  payload_categ VARCHAR (40));
```

```
INSERT INTO
```

```
trips (  
  trip_id,  
  date_left,  
  date_arrived,  
  payloadlbs,  
  payload_categ)
```

```
VALUES
```

```
(1, '2020-04-01', '2020-06-02', 4356, 'Apparel'),  
(2, '2020-07-03', '2020-08-04', 8126, 'Dry Goods'),  
(3, '2020-09-15', '2020-09-30', 9330, 'Bldg Materials'),  
(4, '2020-10-20', '2020-11-16', 5567, 'Livestock');
```

1) Here, I made my Trips table, inserting values that I cannot reference from other tables.

```
ALTER TABLE trips  
ADD CONSTRAINT fk_country  
FOREIGN KEY (origin_country)  
REFERENCES o_countries (country_code);
```

```
ALTER TABLE trips  
ADD CONSTRAINT fk_city  
FOREIGN KEY (origin_city)  
REFERENCES o_cities (city_name);
```

```
ALTER TABLE trips  
ADD CONSTRAINT fk_d_country  
FOREIGN KEY (destination_country)  
REFERENCES d_countries (country_code);
```

```
ALTER TABLE trips  
ADD CONSTRAINT fk_d_city  
FOREIGN KEY (destination_city)  
REFERENCES d_cities (city_name);
```

```
ALTER TABLE trips  
ADD CONSTRAINT fk_carrier_id  
FOREIGN KEY (carrier_id)  
REFERENCES carriers (carrier_name);
```

3) ALTER TABLE statements to have values in my other tables populate in the trips tables

2) My output after "SELECT * FROM trips, after adding the INSERT INTO statement.

	trip_id [PK] integer	carrier_id character varying (20)	origin_country character varying (40)	origin_city character varying (40)	destination_country character varying (40)	destination_city character varying (40)	date_left date	date_arrived date	payloadlbs integer	payload_categ character varying (40)
1	1	[null]	[null]	[null]	[null]	[null]	2020-04-01	2020-06-02	4356	Apparel
2	2	[null]	[null]	[null]	[null]	[null]	2020-07-03	2020-08-04	8126	Dry Goods
3	3	[null]	[null]	[null]	[null]	[null]	2020-09-15	2020-09-30	9330	Bldg Materials
4	4	[null]	[null]	[null]	[null]	[null]	2020-10-20	2020-11-16	5567	Livestock


```

UPDATE trips
SET   origin_country = o_countries.country_code
FROM   o_countries
WHERE  trips.origin_country = o_countries.country_code
AND    trips.origin_country IS DISTINCT FROM o_countries.country_code;

```

I tried many ways to update my **trips** table, but couldn't get it to work. I was left with the following input.

	trip_id [PK] integer	carrier_id character varying (4)	origin_country character varying (40)	origin_city character varying (40)	destination_country character varying (40)	destination_city character varying (40)	date_left date	date_arrived date	payloadlbs integer	payload_categ character varying (40)
1	1	[null]	[null]	[null]	[null]	[null]	2020-04-01	2020-06-02	4356	Apparel
2	2	[null]	[null]	[null]	[null]	[null]	2020-07-03	2020-08-04	8126	Dry Goods
3	3	[null]	[null]	[null]	[null]	[null]	2020-09-15	2020-09-30	9330	Bldg Materials
4	4	[null]	[null]	[null]	[null]	[null]	2020-10-20	2020-11-16	5567	Livestock