

## REPORTS:

We have done a few query validations to check if the inserts went through fine.

```
select count(*) as itemCount from item_owner.item;
select count(*) as inventoryTableCount from item_owner.item_inventory;
select count(*) as reviewTableCount from item_owner.item_reviews;
```

ITEMTABLECOUNT
100
INVENTORYTABLECOUNT
100
REVIEWTABLECOUNT
170

```
select * from item order by 1 desc;
```

	ITEM_ID	ITEM_NAME	ITEM_DESCRIPTION	ITEM_STATUS	ITEM_PRICE	ITEM_UPDATE_TIMEST...	ITEM_GROUP
1	100	iPhone 13 B...	Mobile	1	59.99	13-APR-22 11.52.00.000...	128
2	99	XPS 8920 To...	Accessories,Portab...	0	208.99	21-JUN-18 09.34.45.000...	120
3	98	Lenovo - 30...	Accessories,Portab...	0	121.99	03-JAN-18 05.30.13.000...	120
4	97	AudioQuest ...	Accessories,Portab...	1	124.19	13-JUN-18 07.39.21.000...	120
5	96	PELICAN - P...	Computers,Hard Dri...	1	137.99	13-JUN-18 07.37.55.000...	112
6	95	Toshiba - 2...	Computers,Hard Dri...	1	159.09	13-JUN-18 07.51.04.000...	112
7	94	ASUS - 8241	Computers,Hard Dri...	0	252.00	13-JUN-18 07.37.34.000...	112

We performed the check for all our other tables and everything tested good.

**We did some exploratory data analysis with a few business questions for our reports:**

- List out all the return orders created over all time:

```
select count(*) from order_desc where order_return_flag = 1;
```

COUNT(\*)

5

- Show the different product groups and the average price for each group:

```
select unique(item_group),round(AVG(item_price), 2) as avg_prc from item GROUP by
item_group order by item_group;
```

	ITEM_GROUP	AVG_PRC
1	1	104.99
2	8	73.41
3	16	267.99
4	24	164.98
5	32	389.79
6	40	492.59
7	48	167.16
8	56	156.97
9	64	102.25
10	72	124.97
11	80	83.55
12	88	165.97
13	96	43.74
14	104	87.83
15	112	156.56
16	120	151.72
17	128	59.99

- Find all the inactive customers using our application

select customer\_id, status, first\_name from customer where status <> 1 and first\_name is not null order by customer\_id;

We have 10 customers who are inactive.

	CUSTOMER_ID	STATUS	FIRST_NAME
1	90		Sage
2	190		Yuki
3	200		Fletcher
4	260		Allene
5	610		Blondell
6	640		Carmelina
7	790		Viva
8	800		Elza
9	920		Cory
10	930		Danica

- Display count of products who's inventory stock is less than 10

select count(\*) from item\_inventory where item\_quantity < 10;

COUNT(\*)

14

- Display count of all item reviews that are not placed by a customer.

select count(\*) from item\_reviews where customer\_purchase\_item\_flag = 0;

There are 81 non-customer reviews [maybe bots or customers who did not make purchase]

COUNT(\*)

81