**CASE STUDY 5**

TABLE\_1: tutorial.excel\_sql\_inventory\_data

TABLE\_2: tutorial.excel\_sql\_transaction\_data

1. Write a query to join the above tables. Use left join.
2. **SELECT \* FROM tutorial.excel\_sql\_inventory\_data I LEFT JOIN tutorial.excel\_sql\_transaction\_data T ON I.product\_id = T.product\_id;**
3. Find the product which does not sell a single unit.
4. **SELECT i.product\_id, i.product\_name FROM tutorial.excel\_sql\_inventory\_data i**

**LEFT JOIN tutorial.excel\_sql\_transaction\_data t**

**ON i.product\_id = t.product\_id**

**WHERE t.product\_id IS NULL;**

1. Write a query to find how many units are sold per product. Sort the data in terms of unit sold(descending order).
2. **SELECT t.product\_id, i.product\_name, COUNT(\*) AS units\_sold**

**FROM tutorial.excel\_sql\_transaction\_data t**

**JOIN tutorial.excel\_sql\_inventory\_data i ON t.product\_id = i.product\_id**

**GROUP BY t.product\_id, i.product\_name**

**ORDER BY units\_sold DESC;**

1. Write a query to return product\_type and units\_sold where product\_type is sold more than 50 times.
2. **SELECT i.product\_type, COUNT(t.product\_id) AS units\_sold**

**FROM tutorial.excel\_sql\_transaction\_data t JOIN tutorial.excel\_sql\_inventory\_data i**

**ON t.product\_id = i.product\_id**

**GROUP BY i.product\_type**

**HAVING COUNT(t.product\_id) > 50**

**ORDER BY units\_sold DESC;**

1. Write a query to return the total revenue generated.
2. **SELECT SUM(total\_revenue) FROM**

**(SELECT**

**i.product\_id, i.product\_name, COUNT(t.product\_id) AS units\_sold, i.price\_unit,**

**COUNT(t.product\_id) \* i.price\_unit AS total\_revenue**

**FROM tutorial.excel\_sql\_transaction\_data t JOIN tutorial.excel\_sql\_inventory\_data i ON t.product\_id = i.product\_id**

**GROUP BY i.product\_id, i.product\_name, i.price\_unit**

**ORDER BY total\_revenue DESC) Revenue;**

1. Write a query to return the most selling product under product\_type = ‘dry goods’.
2. **SELECT**

**i.product\_id, i.product\_name,COUNT(t.product\_id) AS units\_sold**

**FROM**

**tutorial.excel\_sql\_inventory\_data i JOIN tutorial.excel\_sql\_transaction\_data t ON i.product\_id = t.product\_id**

**WHERE i.product\_type = 'dry\_goods'**

**GROUP BY i.product\_id, i.product\_name**

**ORDER BY units\_sold DESC LIMIT 1;**

1. Write a query to find the difference between inventory and total sales per product\_type.
2. **SELECT**

**i.product\_type,**

**SUM(i.current\_inventory) AS total\_inventory,**

**COUNT(t.product\_id) AS total\_units\_sold,**

**SUM(i.current\_inventory) - COUNT(t.product\_id) AS inventory\_minus\_sales**

**FROM tutorial.excel\_sql\_inventory\_data i LEFT JOIN tutorial.excel\_sql\_transaction\_data t ON i.product\_id = t.product\_id**

**GROUP BY i.product\_type;**

1. Find the product-wise sales for product\_type =’dairy’.
2. **SELECT**

**i.product\_id, i.product\_name, COUNT(t.product\_id) AS units\_sold**

**FROM**

**tutorial.excel\_sql\_inventory\_data i JOIN tutorial.excel\_sql\_inventory\_data t ON i.product\_id = t.product\_id**

**WHERE i.product\_type = 'dairy'**

**GROUP BY i.product\_id, i.product\_name**

**ORDER BY units\_sold DESC;**