

# SQL PROBLEM SOLVING

PRODUCTS TABLE JOIN IN ORDER  
DETAILS TABLE

# THIS PROBLEM

product_id	product_name	supplier_id	category_id	quantity_per_unit	unit_price	units_in_stock	units_on_order	reorder_level	discontinued
1	Chai	1	1	10 boxes x 10 bags	10	10	0	10	0
2	Chang	1	1	24 - 12 oz bottles	10	12	40	10	0
3	Aniseed Syrup	1	2	12 - 500 ml bottles	10	13	70	10	0
4	Chief Antelope Capon Seasoning	2	2	400 - 16 oz jars	22	62	0	0	0
5	Chief Antelope Spiced Malt	2	2	18 boxes	22.10	0	0	0	1
6	Goodman's Broomberry Spread	3	2	12 - 8 oz jars	25	120	0	10	0
7	Upton's Blends Organic dried Peas	3	2	12 - 8 oz pkgs	90	120	0	10	0
8	Northwoods Cranberry Sauce	4	3	12 - 12 oz pkgs	40	0	0	0	0
9	Mishi Koshi Miso	4	3	18 - 500 g pkgs	97	20	0	0	1
10	Bone	4	3	12 - 200 ml pkgs	15	15	0	0	0
11	Quepasa Cakes	5	4	1 kg pkgs	21	22	20	10	0
12	Quepasa Marshmallows La Pastora	5	4	100 - 500 g pkgs	88	88	0	0	0
13	Smiley	6	5	2 kg pkgs	0	24	0	1	0
14	Tofu	6	7	400 - 100 g pkgs	24.20	15	0	0	0
15	Garrett Biscuits	6	2	24 - 200 ml bottles	13.5	19	0	1	0
16	Peppercorn	7	1	100 - 100 g pkgs	17.40	19	0	10	0
17	Alice Maltless	7	4	200 - 1 kg pkgs	38	0	0	0	1
18	Campanella Tiramisu	7	8	18 kg pkgs	62.5	12	0	0	0
19	Therese's Chocolate Biscuits	8	1	10 boxes x 12 packets	8.2	20	0	1	0
20	La Rochelle's Macarons	8	1	10 gift boxes	81	40	0	0	0
10240		11		12					0
10241		11		10					0
10242		11		12					0
10243		14		0					0
10244		11		40					0
10245		11		10					0
10246		11		10					0.15
10247		11		15					0.15
10248		11		15					0.15
10249		11		15					0.15
10250		11		15					0.15
10251		11		15					0.15
10252		11		15					0.15
10253		11		15					0.15
10254		11		15					0.15
10255		11		15					0.15

PRODUCTS TABLE



ORDER\_DETAILS TABLE

Add the 2 tables and find  
the total revenue and avg

# SQL QUARY

```
SELECT products.product_name,  
       ROUND(  
           SUM(order_details.quantity * products.unit_price),0) AS revenue  
FROM products JOIN order_details  
ON  
products.product_id = order_details.product_id  
GROUP BY  
products.product_name  
ORDER BY revenue  
DESC;
```

## USED HERE

- Round query,
- Sum query
- As query
- Join query
- Group By query
- Order By query



## THE SOLUTION

product_name	total_units_stock_price
Côte de Blaye	4480
Raclette Courdavault	4345
Queso Manchego La Pastora	3268
Sir Rodney's Marmalade	3240
Sirop d'érable	3221
Grandma's Boysenberry Spread	3000
Mishi Kobe Niku	2813
Pâté chinois	2760



# SQL QUARY

```
SELECT ROUND( AVG(revnue),0)
FROM
(SELECT products.product_name,
ROUND( SUM(order_details.quantity * products.unit_price),0) AS revnue
FROM products JOIN order_details
ON
products.product_id = order_details.product_id
GROUP BY
products.product_name
ORDER BY revnue|
DESC);
```

## USED HERE

- Round query,
- Sum query
- As query
- Join query
- Group By query
- Order By query
- use to sub query
- Use to aggregate



## THE SOLUTION

```
round( avg(revnue),0)
```

```
18823
```

