



PHASE 3: SALES PERFORMANCE



Q. Total quantity of pizzas sold (`SUM`).

Query

```
SELECT SUM(quantity) AS pizza_quantity  
FROM order_details;
```

Output

	<u>pizza_quantity</u>
▶	49574

Q. Average pizza price (` AVG `).

Query

```
SELECT ROUND(AVG(price), 2) AS avg_price  
FROM pizzas;
```

Output

	avg_price
▶	16.44

Q. Total order value per order (`JOIN`, `SUM`, `GROUP BY`).



Query

```
SELECT
    o.order_id,
    SUM(p.price * od.quantity) AS total_value
FROM orders AS o
JOIN order_details AS od
ON o.order_id = od.order_id
JOIN pizzas AS p
ON od.pizza_id = p.pizza_id
GROUP BY o.order_id;
```

Output

	order_id	total_value
▶	1	13.25
	2	92
	3	37.25
	4	16.5
	5	16.5
	6	24.75
	7	12.5
	8	12.5
	9	143.25
	10	41
	11	73.5
	12	70.75
	13	20.25
	14	12
	15	63.25

Q. Total quantity sold per pizza category (`JOIN`, `GROUP BY`).



Query

```
SELECT
    category,
    SUM(od.quantity) AS total_quantity
FROM pizza_types AS pt
JOIN pizzas AS p
ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details AS od
ON p.pizza_id = od.pizza_id
GROUP BY pt.category;
```

Output

	category	total_quantity
	Classic	14888
	Veggie	11649
	Supreme	11987
	Chicken	11050

Q. Categories with more than 5,000 pizzas sold (` HAVING `).



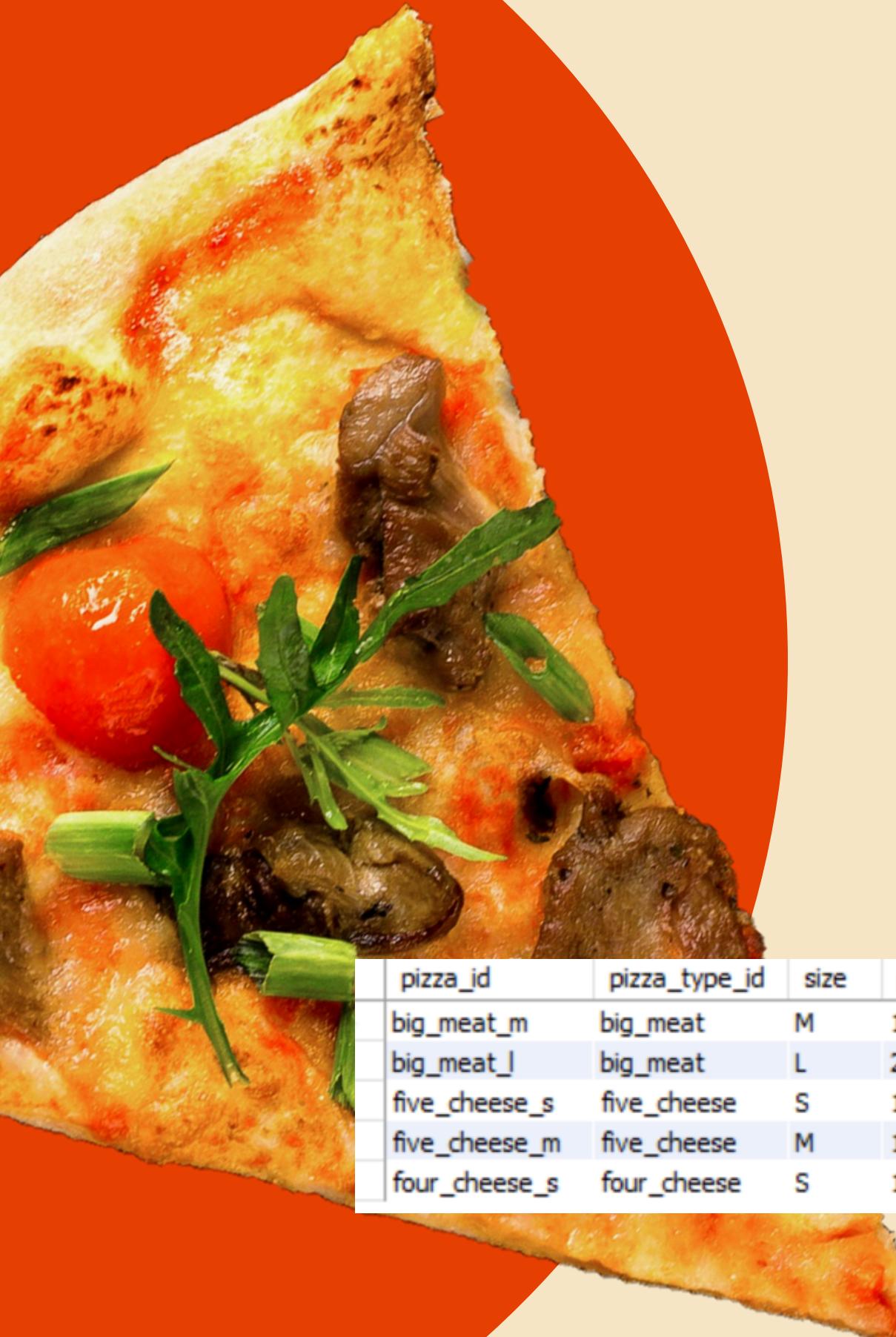
Query

```
SELECT
    pt.category,
    SUM(od.quantity) AS total_quantity
FROM pizza_types AS pt
JOIN pizzas AS p
ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details AS od
ON p.pizza_id = od.pizza_id
GROUP BY pt.category
HAVING SUM(od.quantity) > 5000;
```

Output

category	total_quantity
Classic	14888
Veggie	11649
Supreme	11987
Chicken	11050

Q. Pizzas never ordered ('LEFT/RIGHT JOIN').



Query

```
SELECT *
FROM pizzas AS p
LEFT JOIN pizza_types AS pt
ON p.pizza_type_id = pt.pizza_type_id
LEFT JOIN order_details AS od
ON p.pizza_id = od.pizza_id
WHERE od.order_id IS NULL;
```

Output

pizza_id	pizza_type_id	size	price	pizza_type_id	name	category	ingredients	order_details_id	order_id	pizza_id	quantity
big_meat_m	big_meat	M	16	big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...	NULL	NULL	NULL	NULL
big_meat_l	big_meat	L	20.5	big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...	NULL	NULL	NULL	NULL
five_cheese_s	five_cheese	S	12.5	five_cheese	The Five Cheese Pizza	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked ...	NULL	NULL	NULL	NULL
five_cheese_m	five_cheese	M	15.5	five_cheese	The Five Cheese Pizza	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked ...	NULL	NULL	NULL	NULL
four_cheese_s	four_cheese	S	11.75	four_cheese	The Four Cheese Pizza	Veggie	Ricotta Cheese, Gorgonzola Piccante Cheese, ...	NULL	NULL	NULL	NULL

Q. Price differences between different sizes of the same pizza ('SELF JOIN').



Query

```
SELECT
    p1.pizza_type_id,
    ROUND((MAX(p2.price) - MIN(p1.price)), 2) AS price_difference
FROM pizzas AS p1
INNER JOIN pizzas AS p2
ON p1.pizza_type_id = p2.pizza_type_id
AND p1.size <> p2.size
GROUP BY p1.pizza_type_id;
```

Output

pizza_type_id	price_difference
bbq_ckn	8
cali_ckn	8
ckn_alfredo	8
ckn_pesto	8
southw_ckn	8
thai_ckn	8
big_meat	8.5
classic_dlx	8.5
hawaiian	6
ital_cpcdlo	8.5
napolitana	8.5
pep_msh_pep	6.5
pepperoni	5.5
the_greek	23.95
calabrese	8
ital_supr	8.25
peppr_salami	8.25
prsc_argla	8.25

ORDER NOW!

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THANK YOU

