2. TABLE RELATIONSHIPS

- orders → order_details (1-to-many)
- pizzas → order_details (1-to-many)
- pizza_types → pizzas (1-to-many)

Relationships connected by:
- order_id
- pizza_id
- pizza_type_id

1.LIST ALL PIZZA TYPES

```sql
SELECT *
FROM pizza_types;
```

pizza_type_id	name	category	ingredients
bbq_ckn	The Barbecue Chicken Pizza	Chicken	Barbecued Chicken, Red Peppers, Green Peppe...
big_meat	The Big Meat Pizza	Classic	Bacon, Pepperoni, Italian Sausage, Chorizo Sau...
brie_carre	The Brie Carre Pizza	Supreme	Brie Carre Cheese, Prosciutto, Caramelized Oni...
calabrese	The Calabrese Pizza	Supreme	'Nduja Salami, Pancetta, Tomatoes, Red Onions...
cali_ckn	The California Chicken Pizza	Chicken	Chicken, Artichoke, Spinach, Garlic, Jalapeno P...
ckn_alfredo	The Chicken Alfredo Pizza	Chicken	Chicken, Red Onions, Red Peppers, Mushrooms...
ckn_pesto	The Chicken Pesto Pizza	Chicken	Chicken, Tomatoes, Red Peppers, Spinach, Garl...
classic_dlx	The Classic Deluxe Pizza	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppe...
five_cheese	The Five Cheese Pizza	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked ...
four_cheese	The Four Cheese Pizza	Veggie	Ricotta Cheese, Gorgonzola Piccante Cheese, ...
green_garden	The Green Garden Pizza	Veggie	Spinach, Mushrooms, Tomatoes, Green Olives, ...
hawaiian	The Hawaiian Pizza	Classic	Sliced Ham, Pineapple, Mozzarella Cheese
ital_cpcllo	The Italian Capocollo Pizza	Classic	Capocollo, Red Peppers, Tomatoes, Goat Chee...
ital_supr	The Italian Supreme Pizza	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red O...
ital_veggie	The Italian Vegetables Pizza	Veggie	Eggplant, Artichokes, Tomatoes, Zucchini, Red ...

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

pizza_types 19 ✕

2. LIST ALL PIZZA SIZE AND PRICES

```sql
SELECT pizza_id, size, price FROM pizzas;
```

pizza_id	size	price
bbq_ckn_l	L	20.75
bbq_ckn_m	M	16.75
bbq_ckn_s	S	12.75
big_meat_l	L	20.50
big_meat_m	M	16.00
big_meat_s	S	12.00
brie_carre_s	S	23.65
calabrese_l	L	20.25
calabrese_m	M	16.25
calabrese_s	S	12.25
cali_ckn_l	L	20.75
cali_ckn_m	M	16.75
cali_ckn_s	S	12.75
ckn_alfredo_l	L	20.75
ckn_alfredo...	M	16.75

pizzas 20 ✕

3.LIST ORDERS WITH PIZZA NAMES

```sql
SELECT o.order_id, pt.name, od.quantity
FROM orders o
JOIN order_details od ON o.order_id = od.order_id
JOIN pizzas p ON od.pizza_id = p.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id;
```

Result Grid | Filter Rows:

order_id	name	quantity
11	The Barbecue Chicken Pizza	1
17	The Barbecue Chicken Pizza	1
27	The Barbecue Chicken Pizza	1
33	The Barbecue Chicken Pizza	1
51	The Barbecue Chicken Pizza	1
69	The Barbecue Chicken Pizza	1
91	The Barbecue Chicken Pizza	2
133	The Barbecue Chicken Pizza	1
167	The Barbecue Chicken Pizza	1
190	The Barbecue Chicken Pizza	1
195	The Barbecue Chicken Pizza	1
208	The Barbecue Chicken Pizza	1
219	The Barbecue Chicken Pizza	1
225	The Barbecue Chicken Pizza	1
245	The Barbecue Chicken Pizza	1

Result 21 ×

4. FIND PIZZAS PRICED HIGHER THAN THE AVERAGE PRICE OF ALL PIZZAS

```sql
SELECT
    pizza_id,
    size,
    price
FROM pizzas
WHERE price > (
    SELECT AVG(price)
    FROM pizzas
)
ORDER BY price DESC;
```

Result Grid		
pizza_id	size	price
the_greek_xl	XL	25.50
brie_carre_s	S	23.65
ital_veggie_l	L	21.00
bbq_ckn_l	L	20.75
spinach_supr_l	L	20.75
peppr_salami_l	L	20.75
ital_supr_l	L	20.75
southw_ckn_l	L	20.75
cali_ckn_l	L	20.75
ckn_alfredo_l	L	20.75
soppressata_l	L	20.75
ckn_pesto_l	L	20.75
prsc_argla_l	L	20.75
thai_ckn_l	L	20.75
spin_pesto_l	L	20.75
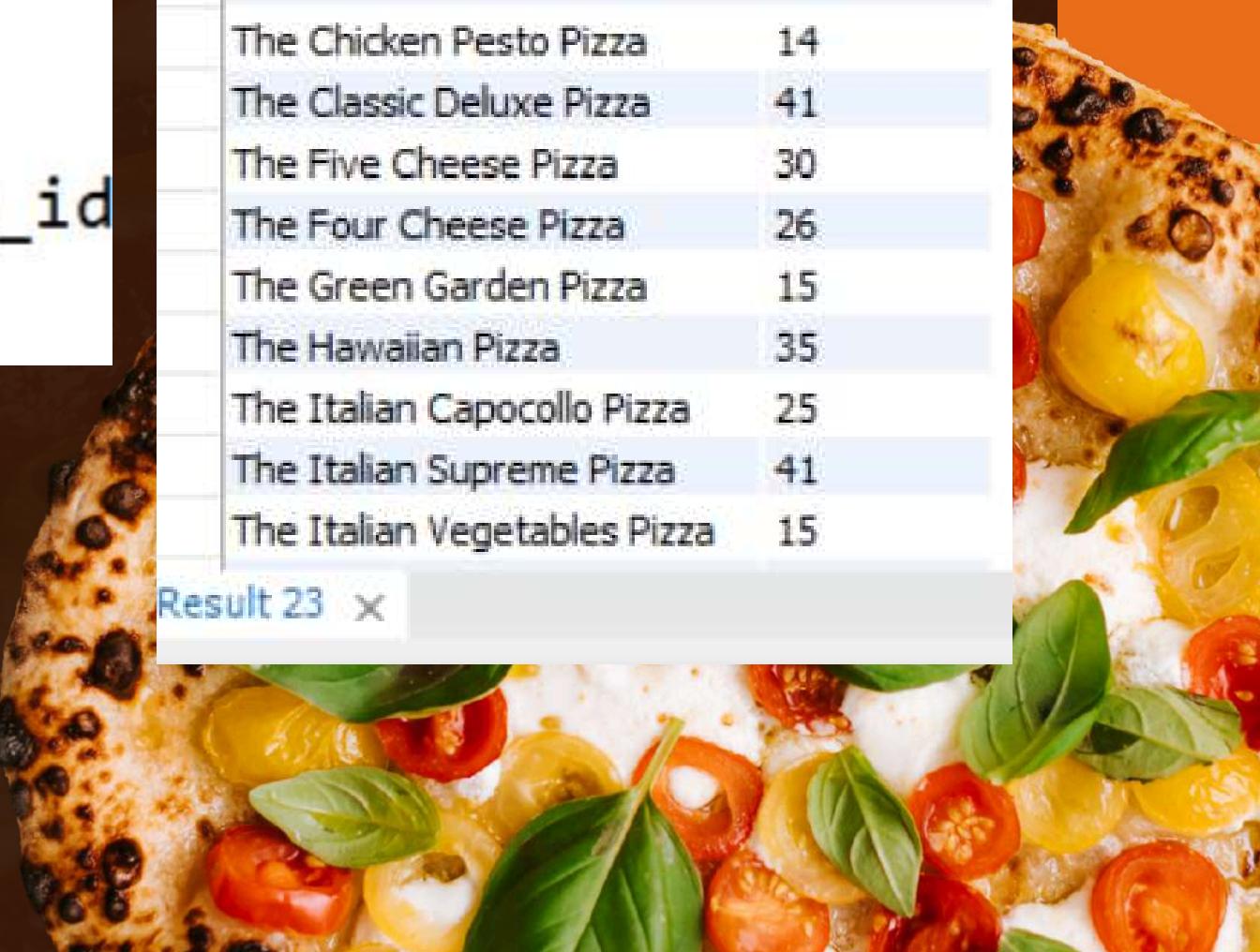
pizzas 33

5.FIND TOTAL QUANTITY OF EACH PIZZA SOLD

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

Result Grid | Filter Rows:

name	total_sold
The Barbecue Chicken Pizza	40
The Big Meat Pizza	27
The Brie Carre Pizza	6
The Calabrese Pizza	5
The California Chicken Pizza	38
The Chicken Alfredo Pizza	24
The Chicken Pesto Pizza	14
The Classic Deluxe Pizza	41
The Five Cheese Pizza	30
The Four Cheese Pizza	26
The Green Garden Pizza	15
The Hawaiian Pizza	35
The Italian Capocollo Pizza	25
The Italian Supreme Pizza	41
The Italian Vegetables Pizza	15

Result 23 ×

6. TOTAL REVENUE GENERATED
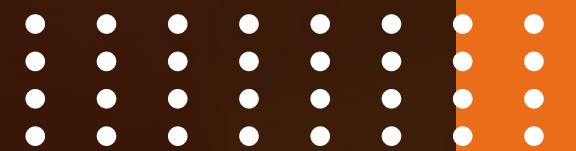
```sql
SELECT ROUND(SUM(od.quantity * p.price), 2) AS total_revenue
FROM order_details od
JOIN pizzas p ON od.pizza_id = p.pizza_id;
```

Result Grid	
total_revenue
12736.15

7.REVENUE BY PIZZA CATEGORY

```sql
SELECT pt.category, ROUND(SUM(od.quantity * p.price), 2) AS category_revenue
FROM order_details od
JOIN pizzas p ON od.pizza_id = p.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.category;
```

category	category_revenue
Chicken	3214.25
Classic	3339.00
Supreme	3261.15
Veggie	2921.75

8.TOP 5 MOST SOLD PIZZAS

```sql
SELECT pt.name, SUM(od.quantity) AS total_sold
FROM order_details od
JOIN pizzas p ON od.pizza_id = p.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.name
ORDER BY total_sold DESC
LIMIT 5;
```

Result Grid | Filter Rows:

name	total_sold
The Italian Supreme Pizza	41
The Classic Deluxe Pizza	41
The Barbecue Chicken Pizza	40
The Thai Chicken Pizza	40
The California Chicken Pizza	38

9.TOTAL ORDERS BY DATE

```sql
SELECT date, COUNT(order_id) AS total_orders
FROM orders
GROUP BY date
ORDER BY date;
```

| date	total_orders
2015-01-01	69
2015-01-02	67
2015-01-03	66
2015-01-04	52
2015-01-05	54
2015-01-06	64
2015-01-07	58
2015-01-08	72
2015-01-09	62
2015-01-10	65
2015-01-11	52
2015-01-12	55
2015-01-13	48
2015-01-14	62
2015-01-15	62

Result Grid | Filter Rows:
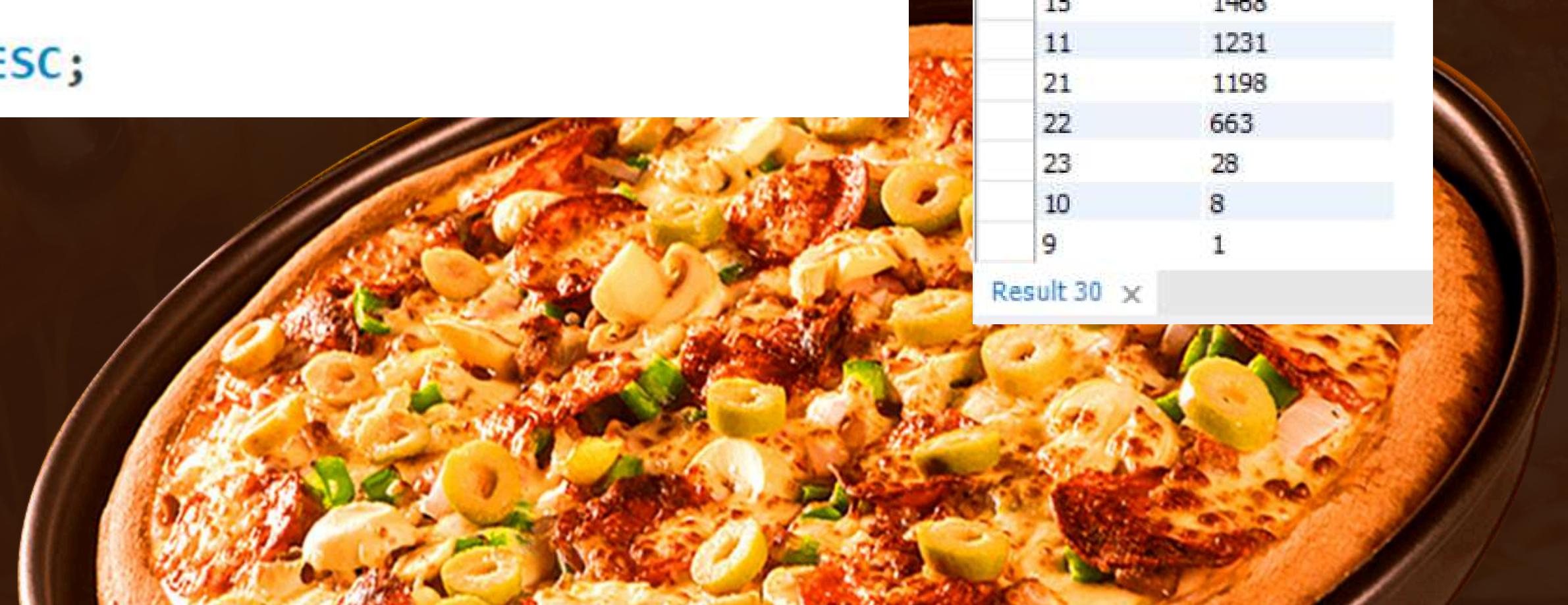
Result 29 ✕

10.FIND BUSIEST ORDER TIME

```sql
SELECT HOUR(time) AS order_hour, COUNT(*) AS orders_count
FROM orders
GROUP BY order_hour
ORDER BY orders_count DESC;
```

order_hour	orders_count
12	2520
13	2455
18	2399
17	2336
19	2009
16	1920
20	1642
14	1472
15	1468
11	1231
21	1198
22	663
23	28
10	8
9	1

Result 30 ✕

11.FIND ALL "CHICKEN" PIZZAS

```sql
SELECT name
FROM pizza_types
    WHERE category = 'Chicken';
```

Result Grid		Filter Rows:
	name	
▶	The Barbecue Chicken Pizza	
	The California Chicken Pizza	
	The Chicken Alfredo Pizza	
	The Chicken Pesto Pizza	
	The Southwest Chicken Pizza	
	The Thai Chicken Pizza	
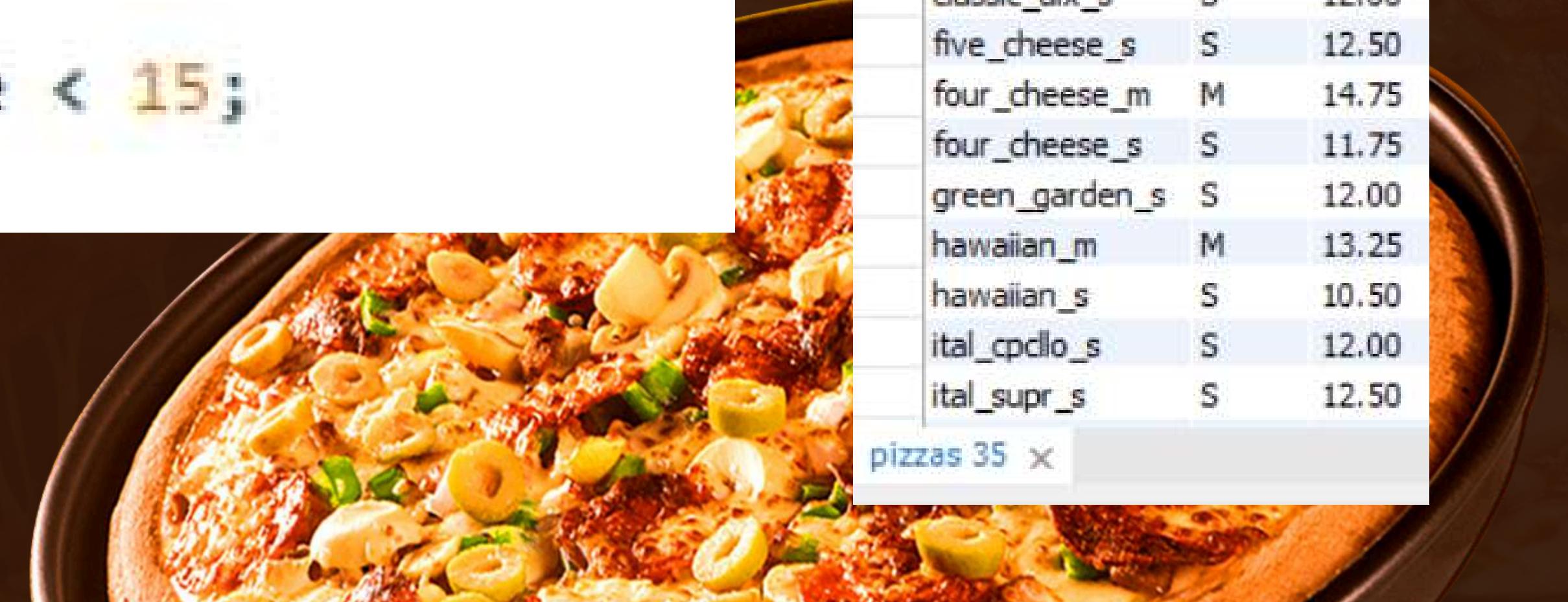
12.FIND PIZZAS CHEAPER THAN ₹15

```sql
SELECT pizza_id, size, price
FROM pizzas
  WHERE price < 15;
```

pizza_id	size	price
bbq_ckn_s	S	12.75
big_meat_s	S	12.00
calabrese_s	S	12.25
cali_ckn_s	S	12.75
ckn_alfredo_s	S	12.75
ckn_pesto_s	S	12.75
classic_dlx_s	S	12.00
five_cheese_s	S	12.50
four_cheese_m	M	14.75
four_cheese_s	S	11.75
green_garden_s	S	12.00
hawaiian_m	M	13.25
hawaiian_s	S	10.50
ital_cpdlo_s	S	12.00
ital_supr_s	S	12.50

pizzas 35 ✕

13. FIND ALL ORDERS CONTAINING "BARBECUE CHICKEN PIZZA"

```sql
SELECT DISTINCT o.order_id, o.date
FROM orders o
JOIN order_details od ON o.order_id = od.order_id
JOIN pizzas p ON od.pizza_id = p.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
WHERE pt.name = 'The Barbecue Chicken Pizza';
```

order_id	date
11	2015-01-01
17	2015-01-01
27	2015-01-01
33	2015-01-01
51	2015-01-01
69	2015-01-01
91	2015-01-02
133	2015-01-02
167	2015-01-03
190	2015-01-03
195	2015-01-03
208	2015-01-04
219	2015-01-04
225	2015-01-04
245	2015-01-04

Result 36 ✕

14. SHOW TOTAL REVENUE PER ORDER (WITH PIZZA DETAILS)

```sql
SELECT
    pt.name AS pizza_name,
    COUNT(DISTINCT o.order_id) AS total_orders
FROM pizza_types pt
JOIN pizzas p ON pt.pizza_type_id = p.pizza_type_id
JOIN order_details od ON p.pizza_id = od.pizza_id
JOIN orders o ON o.order_id = od.order_id
GROUP BY pt.name
ORDER BY total_orders DESC;
```

pizza_name	total_orders
The Classic Deluxe Pizza	40
The Thai Chicken Pizza	40
The Italian Supreme Pizza	38
The Pepperoni Pizza	36
The Barbecue Chicken Pizza	35
The Hawaiian Pizza	34
The California Chicken Pizza	33
The Five Cheese Pizza	30
The Spicy Italian Pizza	29
The Sicilian Pizza	28
The Big Meat Pizza	26
The Four Cheese Pizza	26
The Italian Capocollo Pizza	25
The Greek Pizza	24
The Mexicana Pizza	24

Result Grid | Filter Rows:

15.FIND THE AVERAGE QUANTITY SOLD PER PIZZA TYPE SELECT

```sql
SELECT
    pt.name AS pizza_name,
    ROUND(AVG(od.quantity), 2) AS avg_quantity_sold
FROM order_details od
JOIN pizzas p ON od.pizza_id = p.pizza_id
JOIN pizza_types pt ON p.pizza_type_id = pt.pizza_type_id
GROUP BY pt.name
ORDER BY avg_quantity_sold DESC;
```

pizza_name	avg_quantity_sold
The Chicken Alfredo Pizza	1.14
The Mediterranean Pizza	1.13
The Barbecue Chicken Pizza	1.08
The Chicken Pesto Pizza	1.08
The Spicy Italian Pizza	1.07
The Big Meat Pizza	1.04
The Greek Pizza	1.04
The California Chicken Pizza	1.03
The Hawaiian Pizza	1.03
The Brie Carre Pizza	1.00
The Calabrese Pizza	1.00
The Classic Deluxe Pizza	1.00
The Five Cheese Pizza	1.00
The Four Cheese Pizza	1.00
The Green Garden Pizza	1.00

Pizza sales Presentation

THANK YOU FOR ATTENTION