

Challenge-5

PUB PRICING ANALYSIS

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TABLES

pubs

pub_id	pub_name	city	state	country
1	The Red Lion	London	England	United Kingdom
2	The Dubliner	Dublin	Dublin	Ireland
3	The Cheers Bar	Boston	Massachusetts	United States
4	La Cerveceria	Barcelona	Catalonia	Spain

beverages

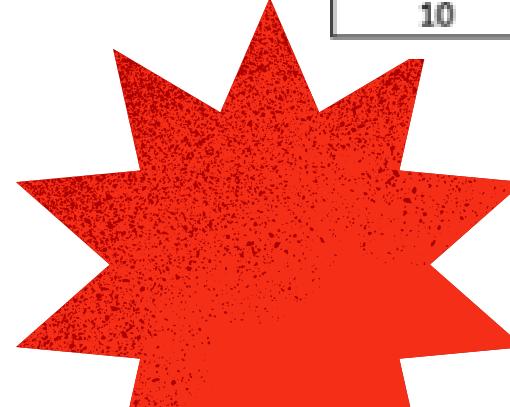
beverage_id	beverage_name	category	alcohol_content	price_per_unit
1	Guinness	Beer	4.2	5.99
2	Jameson	Whiskey	40	29.99
3	Mojito	Cocktail	12	8.99
4	Chardonnay	Wine	13.5	12.99
5	IPA	Beer	6.8	4.99
6	Tequila	Spirit	38	24.99

ratings

rating_id	pub_id	customer_name	rating	review
1	1	John Smith	4.5	Great pub with a wide selection of beers
2	1	Emma Johnson	4.8	Excellent service and cozy atmosphere
3	2	Michael Brown	4.2	Authentic atmosphere and great beers
4	3	Sophia Davis	4.6	The cocktails were amazing! Will definitely come back.
5	4	Oliver Wilson	4.9	The wine selection here is outstanding
6	4	Isabella Moore	4.3	Had a great time trying different spirits
7	1	Sophia Davis	4.7	Loved the pub food! Great ambience
8	2	Ethan Johnson	4.5	A good place to hang out with friends
9	2	Olivia Taylor	4.1	The whiskey tasting experience was fantastic
10	3	William Miller	4.4	Friendly staff and live music on weekends

sales

sale_id	pub_id	beverage_id	quantity	transaction_date
1	1	1	10	1/5/23
2	1	2	5	1/5/23
3	2	1	8	1/5/23
4	3	3	12	2/5/23
5	4	4	3	2/5/23
6	4	6	6	3/5/23
7	2	3	6	3/5/23
8	3	1	15	3/5/23
9	3	4	7	3/5/23
10	4	1	10	4/5/23
11	1	3	5	6/5/23
12	2	2	3	9/5/23
13	2	5	9	9/5/23
14	3	6	4	9/5/23
15	4	3	7	9/5/23
16	4	4	2	9/5/23
17	1	4	6	11/5/23
18	1	6	8	11/5/23
19	2	1	12	12/5/23
20	3	5	5	13/5/23



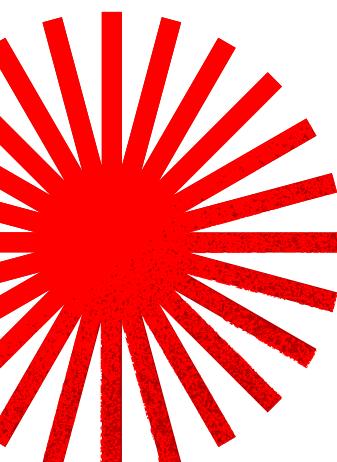
QUESTION-1 —————

How many pubs are located in each country?

Query SQL •

```
1 SELECT country, COUNT(*) AS pub_count  
2 FROM pubs  
3 GROUP BY country;
```

country	pub_count
Ireland	1
Spain	1
United Kingdom	1
United States	1



QUESTION-2

What is the total sales amount for each pub, including the beverage price and quantity sold?

Query SQL 

```
1 SELECT s.pub_id, p.pub_name, SUM(b.price_per_unit * s.quantity) AS total_sales_amount
2 FROM sales s
3 JOIN pubs p ON s.pub_id = p.pub_id
4 JOIN beverages b ON s.beverage_id = b.beverage_id
5 GROUP BY s.pub_id, p.pub_name;
```

pub_id	pub_name	total_sales_amount
1	The Red Lion	532.66
2	The Dubliner	308.62
3	The Cheers Bar	413.57
4	La Cerveceria	337.72

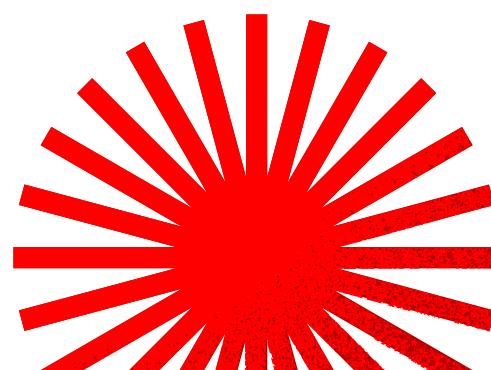
QUESTION-3—

Which pub has the highest average rating?

Query SQL •

```
1 SELECT r.pub_id, p.pub_name, AVG(r.rating) AS avg_rating
2 FROM ratings r
3 JOIN pubs p ON r.pub_id = p.pub_id
4 GROUP BY r.pub_id, p.pub_name
5 ORDER BY avg_rating DESC
6 LIMIT 1;
```

pub_id	pub_name	avg_rating
1	The Red Lion	4.6666666666666667



QUESTION-4

What are the top 5 beverages by sales quantity across all pubs?

Query SQL •

```
1 SELECT b.beverage_name, SUM(s.quantity) AS total_sales_quantity  
2 FROM sales s  
3 JOIN beverages b ON s.beverage_id = b.beverage_id  
4 GROUP BY b.beverage_name  
5 ORDER BY total_sales_quantity DESC  
6 LIMIT 5;
```

beverage_name	total_sales_quantity
Guinness	55
Mojito	30
Chardonnay	18
Tequila	18
IPA	14



QUESTION-5

How many sales transactions occurred on each date?

Query SQL 

```
1 SELECT transaction_date, COUNT(*) AS transaction_count  
2 FROM sales  
3 GROUP BY transaction_date;
```

transaction_date	transaction_count
2023-05-01	3
2023-05-02	2
2023-05-03	4
2023-05-04	1
2023-05-06	1
2023-05-09	5
2023-05-11	2
2023-05-12	1
2023-05-13	1

QUESTION-6

Find the name of someone that had cocktails and which pub they had it in.

Query SQL •

```
1 SELECT r.customer_name, p.pub_name
2 FROM ratings r
3 JOIN sales s ON r.pub_id = s.pub_id
4 JOIN pubs p ON r.pub_id = p.pub_id
5 WHERE s.beverage_id IN (SELECT beverage_id FROM beverages WHERE category = 'Cocktail')
6 LIMIT 1;
```

customer_name	pub_name
Sophia Davis	The Cheers Bar



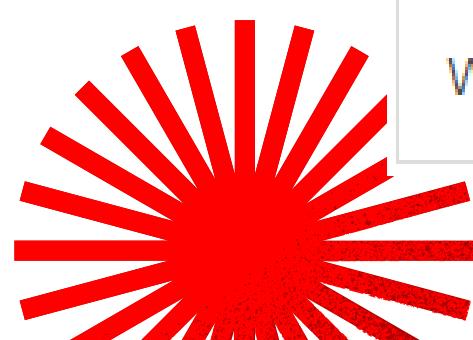
QUESTION-7

What is the average price per unit for each category of beverages, excluding the category 'Spirit'?

Query SQL 

```
1 SELECT category, AVG(price_per_unit) AS avg_price_per_unit  
2 FROM beverages  
3 WHERE category != 'Spirit'  
4 GROUP BY category;
```

category	avg_price_per_unit
Beer	5.490000
Cocktail	8.990000
Whiskey	29.990000
Wine	12.990000



QUESTION-8

Which pubs have a rating higher than the average rating of all pubs?

Query SQL ●

```
1 SELECT p.pub_id, p.pub_name, AVG(rating) AS avg_rating  
2 FROM pubs p  
3 JOIN ratings r ON p.pub_id = r.pub_id  
4 GROUP BY p.pub_id, p.pub_name  
5 HAVING avg_rating > (SELECT AVG(rating) FROM ratings);
```

pub_id	pub_name	avg_rating
1	The Red Lion	4.6666666666666667
4	La Cerveceria	4.600001430511475



**THANK
YOU**