

CHALLENGE

SQL - PUB PRICING

ANALYSIS



Tables

are the tables you will be using



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



QUESTIONS USED


1. How many pubs are located in each country??
2. What is the total sales amount for each pub, including the beverage price and quantity sold?
3. Which pub has the highest average rating?
4. What are the top 5 beverages by sales quantity across all pubs?
5. How many sales transactions occurred on each date?
6. Find the name of someone that had cocktails and which pub they had it in.
7. What is the average price per unit for each category of beverages, excluding the category 'Spirit'?
8. Which pubs have a rating higher than the average rating of all pubs?
9. What is the running total of sales amount for each pub, ordered by the transaction date?
10. For each country, what is the average price per unit of beverages in each category, and what is the overall average price per unit of beverages across all categories?
11. For each pub, what is the percentage contribution of each category of beverages to the total sales amount, and what is the pub's overall sales amount?


```
95      -- 1. How many pubs are located in each country??
96
97 •    select country ,count(*)
98      from pubs
99      group by 1
100      |
```

<

Result Grid




  Filter Rows:

Export: 

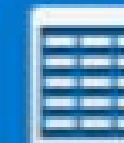
Wrap Cell Content: 

	country	count(*)
▶	United Kingdom	1
	Ireland	1
	United States	1
	Spain	1


```
101  -- 2. What is the total sales amount for each pub, including the beverage price and quantity sold?
102 • select pub_id , pub_name, sum(price_per_unit*quantity) as total_sales
103    from beverages b
104   join sales s
105  using (beverage_id)
106   join pubs p
107  using (pub_id)
108  group by pub_id
```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

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



Result
Grid



Form
Editor

```
110    -- 3. Which pub has the highest average rating?
111
112 •   select pub_name, max(rating)
113      from pubs p
114     join ratings r
115    using (pub_id)
116   group by pub_name
117  order by 2 desc
118   limit 1
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:



	pub_name	max(rating)
▶	La Cerveceria	4.9

```
121      -- 4. What are the top 5 beverages by sales quantity across all pubs?
122
123 •    select beverage_name , sum(quantity) as total_sales_quantity
124      from beverages b
125     join sales s
126    using ( beverage_id )
127    group by 1
128   order by 2 desc
129    limit 5
```



Result Grid



Filter Rows:

Export:



Wrap Cell Content:



Fetch rows:





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


```
131      -- 5. How many sales transactions occurred on each date?
132
133 •    select transaction_date ,count(sale_id) as total_sales_occured
134      from sales
135      group by 1
136      order by 1
```




Result Grid

Filter Rows:

Export: 

Wrap Cell Content: 

	transaction_date	total_sales_occured
▶	2023-05-01	3
	2023-05-02	2
	2023-05-03	4
	2023-05-04	1
	2023-05-06	1
	2023-05-09	5


```

138      -- 6. Find the name of someone that had cocktails and which pub they had it in.
139
140 •    select customer_name , category, pub_name from
141      ratings r
142      join pubs p
143      using (pub_id)
144      join sales s
145      using (pub_id)
146      join beverages b
147      using (beverage_id)
148      where category = 'Cocktail'

```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:




	customer_name	category	pub_name
▶	Sophia Davis	Cocktail	The Cheers Bar
	William Miller	Cocktail	The Cheers Bar
	Michael Brown	Cocktail	The Dubliner
	Ethan Johnson	Cocktail	The Dubliner
	Olivia Taylor	Cocktail	The Dubliner
	John Smith	Cocktail	The Red Lion
	Emma Johnson	Cocktail	The Red Lion
	Sophia Davis	Cocktail	The Red Lion
	Oliver Wilson	Cocktail	La Concorria

Result 50 of 50

```
149      -- 7.What is the average price per unit for each category of beverages, excluding the category 'Spirit'?
150
151 •    select category, avg(price_per_unit) as average_price_per_unit
152      from beverages
153      where category <> 'Spirit'
154      group by category
155      order by 2 desc
156
```

<

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	category	average_price_per_unit
▶	Whiskey	29.990000
	Wine	12.990000
	Cocktail	8.990000
	Beer	5.490000

```
157      -- 8. Which pubs have a rating higher than the average rating of all pubs?
158
159 •    select pub_name , rating
160      from pubs  p
161      join ratings r
162      using (pub_id)
163      where rating > ( select avg(rating) from ratings );
164
165
```

<

Result Grid



Filter Rows:

Export:



Wrap Cell Content:




	pub_name	rating
▶	The Red Lion	4.8
	The Cheers Bar	4.6
	La Cerveceria	4.9
	The Red Lion	4.7

```

165      -- 9. What is the running total of sales amount for each pub, ordered by the transaction date?
166
167 •    select pub_name,transaction_date,sum(price_per_unit*quantity) as running_total_sales
168      from pubs p
169      join sales s
170      using ( pub_id)
171      join beverages b
172      using ( beverage_id )
173      group by 1,2
174
175

```

Result Grid |   Filter Rows: | Export:  | Wrap Cell Content: 

	pub_name	transaction_date	running_total_sales
►	The Red Lion	2023-05-01	209.85
	The Red Lion	2023-05-06	44.95
	The Red Lion	2023-05-11	277.86
	The Dubliner	2023-05-01	47.92
	The Dubliner	2023-05-03	53.94

```
175 -- 10. For each country, what is the average price per unit of beverages in each category, and what is the overall average price per
176
177 • select country,category,avg(price_per_unit)
178 from beverages b
179 join sales s
180 using (beverage_id)
181 join pubs
182 using (pub_id)
183 group by 1,2
184
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	country	category	avg(price_per_unit)
▶	United Kingdom	Beer	5.990000
	United Kingdom	Whiskey	29.990000
	United Kingdom	Cocktail	8.990000
	United Kingdom	Wine	12.990000
	United Kingdom	Spirit	24.990000


```
185      -- 11. For each pub, what is the percentage contribution of each category of beverages to the total sales amount, and what is the pub's overall sales amount?
186
187  •   select pub_name , category , (((price_per_unit * quantity) / 1592.57) * 100) as perc_of_cont
188      from beverages b
189      join sales s
190      using ( beverage_id )
191      join pubs p
192      using (pub_id)
193      group by 1,2 ,3
194
```



Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	pub_name	category	perc_of_cont
▶	The Red Lion	Beer	3.761216
	The Red Lion	Whiskey	9.415599
	The Red Lion	Cocktail	2.822482
	The Red Lion	Wine	4.893976
	The Red Lion	Spirit	12.553294
	The Dubliner	Beer	3.008973
	The Dubliner	Cocktail	3.386978
	The Dubliner	Whiskey	5.640350