PUBS PRICING

```sql
--> How many pubs are located in each country?

SELECT COUNTRY, COUNT(PUB_ID) AS TOTAL_PUBS
FROM
PUBS GROUP BY COUNTRY

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

SELECT P.PUB_ID, P.PUB_NAME, SUM(B.PRICE_PER_UNIT*S.QUANTITY) AS TOTAL_SALES
FROM
PUBS AS P
JOIN SALES AS S
ON P.PUB_ID = S.PUB_ID
JOIN BEVERAGES AS B
ON S.BEVERAGE_ID = B.BEVERAGE_ID
GROUP BY P.PUB_ID, P.PUB_NAME

--> Which pub has the highest average rating?

SELECT TOP 1 P.PUB_ID, P.PUB_NAME, ROUND(AVG(R.RATING),2) AS RATING
FROM PUBS AS P
JOIN RATINGS AS R
ON P.PUB_ID = R.PUB_ID
GROUP BY P.PUB_ID, P.PUB_NAME
ORDER BY RATING DESC

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

SELECT TOP 5 B.BEVERAGE_ID, B.BEVERAGE_NAME, SUM(B.PRICE_PER_UNIT * S.QUANTITY) AS TOTAL_SALES
FROM BEVERAGES AS B
JOIN
SALES AS S
ON B.BEVERAGE_ID = S.BEVERAGE_ID
GROUP BY B.BEVERAGE_ID, B.BEVERAGE_NAME
ORDER BY TOTAL_SALES DESC

--> How many sales transactions occurred on each date?

SELECT TRANSACTION_DATE, COUNT(SALE_ID) AS TOTAL_TRANSACTIONS
FROM SALES
GROUP BY TRANSACTION_DATE

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

SELECT R.CUSTOMER_NAME, R.PUB_ID, P.PUB_NAME
FROM RATINGS AS R
JOIN PUBS AS P
ON R.PUB_ID = P.PUB_ID
WHERE R.REVIEW LIKE '%COCKTAIL%'
GROUP BY R.CUSTOMER_NAME, R.PUB_ID, P.PUB_NAME

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

SELECT CATEGORY, ROUND(AVG(PRICE_PER_UNIT),2) AS AVG_PRICE_UNIT
FROM BEVERAGES
WHERE CATEGORY NOT IN ('SPIRIT')
GROUP BY CATEGORY
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```sql
 -->Which pubs have a rating higher than the average rating of all pubs?

WITH CTE1 AS (
SELECT P.PUB_ID, P.PUB_NAME, ROUND(AVG(R.RATING),2) AS AVG_RATING
FROM PUBS AS P
JOIN RATINGS AS R
ON P.PUB_ID = R.PUB_ID
GROUP BY P.PUB_ID, P.PUB_NAME),
CTE2 AS
( SELECT AVG(R.RATING) AS TOTAL_AVG_RATING FROM RATINGS AS R)
SELECT * FROM CTE1 WHERE AVG_RATING > ( SELECT AVG(R.RATING) AS TOTAL_AVG_RATING FROM RATINGS AS R)

--> What is the running total of sales amount for each pub, ordered by the transaction date?

WITH CTE1 AS
(SELECT S.PUB_ID, P.PUB_NAME,S.TRANSACTION_DATE, B.PRICE_PER_UNIT, S.QUANTITY
FROM SALES AS S
JOIN BEVERAGES AS B
ON S.BEVERAGE_ID = B.BEVERAGE_ID
JOIN PUBS AS P
ON P.PUB_ID = S.PUB_ID )
SELECT PUB_ID, PUB_NAME, TRANSACTION_DATE, (PRICE_PER_UNIT*QUANTITY) AS TOTAL_SALES,
SUM(PRICE_PER_UNIT * QUANTITY) OVER(PARTITION BY PUB_ID ORDER BY TRANSACTION_DATE ROWS UNBOUNDED PRECEDING) AS RUNNING_TOTAL
FROM CTE1
ORDER BY PUB_ID, TRANSACTION_DATE

--> 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?

SELECT AVG(PRICE_PER_UNIT) AS AVG_PRICE_UNIT
FROM BEVERAGES

SELECT P.COUNTRY, B.BEVERAGE_NAME,B.CATEGORY, CAST(AVG(B.PRICE_PER_UNIT) AS DECIMAL(9,2))  AS AVG_PRICE_UNIT
FROM PUBS AS P
JOIN SALES AS S
ON P.PUB_ID = S.PUB_ID
JOIN BEVERAGES AS B
ON S.BEVERAGE_ID = B.BEVERAGE_ID
GROUP BY P.COUNTRY,B.BEVERAGE_NAME, B.CATEGORY
ORDER BY P.COUNTRY

--> For each pub, what is the percentage contribution of each category of beverages to the total sales amount, and what is the pubs overall sales
amount?

WITH CTE1 AS (
SELECT A.*, B.* FROM
( SELECT P.PUB_ID, P.PUB_NAME,B.CATEGORY ,SUM(B.PRICE_PER_UNIT * S.QUANTITY) AS SALES
FROM PUBS AS P
JOIN SALES AS S
ON P.PUB_ID = S.PUB_ID
JOIN BEVERAGES AS B
ON B.BEVERAGE_ID = S.BEVERAGE_ID
GROUP BY P.PUB_ID, P.PUB_NAME,B.CATEGORY) AS A,
( SELECT SUM(B.PRICE_PER_UNIT * S.QUANTITY) AS TOTAL_SALES
FROM SALES AS S
JOIN BEVERAGES AS B
ON B.BEVERAGE_ID = S.BEVERAGE_ID) AS B )
SELECT *,(SALES/TOTAL_SALES)*100  AS PRECENT_CONTRIBUTION FROM CTE1


\\STEEL DATA CHALLENGE 5 BY KIRTHIKA G J
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