/\* Q1 \*/

/\* Inner \*/

SELECT county,

CASE

WHEN category\_name ILIKE '%WHISK%' OR category\_name ILIKE '%VODKA%' THEN 1

ELSE 0

END AS whisk\_or\_vodka

FROM sales;

/\* Outer \*/

SELECT county, ROUND(AVG(whisk\_or\_vodka)\*100,2) AS pct\_whisk\_or\_vodka

FROM(

SELECT county,

CASE

WHEN category\_name ILIKE '%WHISK%' OR category\_name ILIKE '%VODKA%' THEN 1

ELSE 0

END AS whisk\_or\_vodka

FROM sales) AS temp

GROUP BY county

ORDER BY 2 DESC;

/\* Q2 \*/

/\* Inner \*/

SELECT county,

CASE

WHEN CAST(proof AS INT) >= 80 THEN 1

ELSE 0

END AS over\_80

FROM sales a

INNER JOIN products b

ON a.item = b.item\_no;

/\* Outer \*/

SELECT county, ROUND(avg(over\_80)\*100,2) AS pct\_over\_80

FROM (

SELECT county,

CASE

WHEN CAST(proof AS numeric) >= 80 THEN 1

ELSE 0

END AS over\_80

FROM sales a

INNER JOIN products b

ON a.item = b.item\_no) AS temp

GROUP BY county

ORDER BY pct\_over\_80 DESC;

/\* Q3 \*/

/\* Inner \*/

SELECT county,

CASE

WHEN CAST(total AS INT) > 100 THEN 1

ELSE 0

END AS over\_100

FROM sales;

/\* Outer \*/

SELECT county, round(avg(over\_100)\*100,2) AS pct\_over\_100

FROM (

SELECT county,

CASE

WHEN CAST(total AS INT) > 100 THEN 1

ELSE 0

END AS over\_100

FROM sales) AS temp

GROUP BY county

ORDER BY 2 DESC

LIMIT 5;

/\* Q4 \*/

/\* Inner \*/

SELECT county, SUM(pack \* liter\_size \* bottle\_qty) AS ml\_total

FROM sales

GROUP BY county;

/\* Outer \*/

SELECT county, ROUND(CAST(mL\_total AS numeric)/population,2) AS mL\_per\_cap

FROM counties

LEFT JOIN (

SELECT county, SUM(pack \* liter\_size \* bottle\_qty) AS mL\_total

FROM sales

GROUP BY county) AS temp

USING (county)

ORDER BY 2 DESC

LIMIT 5;

/\* Q5 \*/

SELECT category\_name, COUNT(\*) AS count\_of\_sales

FROM sales

WHERE county IN (

SELECT county

FROM counties

ORDER BY population DESC

LIMIT 5)

GROUP BY 1

ORDER BY 2 DESC;