SELECT NULLIF(pack,12)

FROM sales;

---------------

SELECT vendor, convenience\_store

FROM sales;

--------------

SELECT vendor, COALESCE (convenience\_store,'Y')

FROM sales;

--------------

SELECT vendor\_name, item\_description, upc

FROM products

WHERE upc = NULL;

------------

SELECT vendor\_name, item\_description, upc

FROM products

WHERE upc IS NULL;

-----------

SELECT vendor\_name, item\_description, upc

FROM products

WHERE upc IS NOT NULL;

------------

SELECT county, population,

CASE

WHEN population >= 400000 THEN 'large'

WHEN population >= 100000 AND population < 400000 THEN 'medium'

WHEN population < 100000 THEN 'small'

END AS county\_size

FROM counties;

--------------

SELECT county, population,

CASE

WHEN population >= 400000 THEN 'large'

WHEN population >= 100000 AND population < 400000 THEN 'medium'

WHEN population < 100000 THEN 'small'

ELSE 'Other'

END AS county\_size

FROM counties;

-----------------

SELECT AVG(

CASE

WHEN category\_name LIKE '%WHISK%' THEN 1

ELSE 0

END)

AS AverageWhisky

FROM products;

-----------------

SELECT SUM(

CASE

WHEN category\_name LIKE '%WHISK%' THEN 1

ELSE 0

END) AS whiskey\_product\_sales

, COUNT(1) AS total\_sales

, 1.00\*(SUM(

CASE

WHEN category\_name LIKE '%WHISK%' THEN 1 ELSE 0

END))/COUNT(1) AS pct\_whiskey\_sales

FROM products;

-----------------

/\* Q1 \*/

SELECT a.item, COUNT(DISTINCT(a.store)) AS number\_of\_stores

FROM sales a

LEFT OUTER JOIN products b

ON a.item = b.item\_no

WHERE b.item\_no IS NULL

GROUP BY a.item

ORDER BY 1;

/\* Q2 \*/

SELECT DISTINCT ON(store) store,

CASE

WHEN a.convenience\_store ilike 'Y' THEN 'Convenience'

ELSE COALESCE(a.convenience\_store, 'Liquor store')

END AS Store\_Type

FROM sales a

LEFT JOIN stores b

USING(store)

WHERE b.store IS NULL

GROUP BY store, a.convenience\_store;

/\* Q3 \*/

SELECT DISTINCT b.item\_no, b.item\_description, b.list\_date,

CASE

WHEN CAST(LEFT(CAST(AGE(CURRENT\_DATE, b.list\_date) as varchar),2)as integer) BETWEEN 0 AND 10 THEN '0-10 YEARS'

WHEN CAST(LEFT(CAST(AGE(CURRENT\_DATE, b.list\_date) as varchar),2)as integer) BETWEEN 11 AND 20 THEN '11-20 YEARS'

WHEN CAST(LEFT(CAST(AGE(CURRENT\_DATE, b.list\_date) as varchar),2)as integer) BETWEEN 21 AND 30 THEN '21-30 YEARS'

WHEN CAST(LEFT(CAST(AGE(CURRENT\_DATE, b.list\_date) as varchar),2)as integer) BETWEEN 0 AND 10 THEN '31-40 YEARS'

ELSE '41+ YEARS'

END AS Year\_Groups,

SUM(a.total) AS sum\_total

FROM sales a

JOIN products b

ON a.item = b.item\_no

GROUP BY b.item\_no, b.item\_description

LIMIT 100;

/\* Q4 \*/

SELECT CONCAT(cast((cast(AVG(

CASE

WHEN category\_name LIKE '%WHISK%' THEN 1

ELSE 0

END) AS DECIMAL(3,2))\*100) AS VARCHAR), '%') AS Whiskey\_Percent

FROM sales;