Questions

1. How many total products are in the Products table?

SELECT *

FROM products;

-9977 Rows, this will provide an overview of what I am working with.

2. Who are the top most diverse vendors (i.e. they have the highest number of distinct products)? How many different products do they have?

SELECT vendor_name, COUNT(DISTINCT item_no) AS amount_of_products FROM products GROUP BY vendor_name ORDER BY 2 DESC

LIMIT 5

4	vendor_name text	amount_of_products bigint
1	Jim Beam Brands	925
2	Diageo Americas	907
3	Pernod Ricard Usa/austin Nichols	599
4	Yahara Bay Distillers Inc	579
5	Heaven Hill Distilleries Inc.	388

3. Which products sell the best by total number of unit sales?

SELECT description, SUM(bottle_qty) AS total_sales FROM sales GROUP BY description ORDER BY total_sales DESC LIMIT 10

4	description text	total_sales bigint
1	Black Velvet	1672344
2	Hawkeye Vodka	1192739
3	Captain Morgan Spiced Rum	766901
4	Fireball Cinnamon Whiskey	666062
5	Jack Daniels Old #7 Black Lbl	546234
6	Five O'clock	503006
7	Mccormick Vodka Pet	487426
8	Barton Vodka	450451
9	Smirnoff Vodka 80 Prf	425220
10	Crown Royal Canadian Whisky	376931

4. Which products sell the best by total dollar value of sales?

SELECT item, description, SUM(total) AS total_dollar_value FROM sales GROUP BY item, description ORDER BY total_dollar_value DESC LIMIT 5;

4	item integer	description text	total_dollar_value numeric
1	11788	Black Velvet	12863376.81
2	43337	Captain Morgan Spiced Rum	8523370.55
3	26827	Jack Daniels Old #7 Black Lbl	6668863.94
4	11297	Crown Royal Canadian Whisky	6231299.41
5	36308	Hawkeye Vodka	5380753.20

5. What are the top 10 categories of liquor sold based on the total amount of sales revenue?

SELECT category_name, description, SUM(total) AS total_amt_sales
FROM sales
GROUP BY category_name, description
ORDER BY total_amt_sales DESC
LIMIT 10;

4	category_name text	description text	total_amt_sales numeric
1	CANADIAN WHISKIES	Black Velvet	18315550.64
2	SPICED RUM	Captain Morgan Spiced Rum	13772752.25
3	TENNESSEE WHISKIES	Jack Daniels Old #7 Black Lbl	13701656.82
4	WHISKEY LIQUEUR	Fireball Cinnamon Whiskey	10622967.34
5	CANADIAN WHISKIES	Crown Royal Canadian Whisky	9714022.78
6	80 PROOF VODKA	Hawkeye Vodka	8730823.84
7	IMPORTED VODKA	Absolut Swedish Vodka 80 Prf	7431864.05
8	IMPORTED VODKA	Grey Goose Vodka	6444939.38
9	MISC. IMPORTED CORDIALS & LIQUEURS	Jagermeister Liqueur	6298430.40
10	STRAIGHT BOURBON WHISKIES	Jim Beam	5163920.19

6. Which rum products have sales greater than \$10,000?

SELECT category_name AS product_name, SUM(total) AS total_revenue FROM sales

GROUP BY category_name

HAVING category_name ILIKE '%rum%' and SUM(total) > 10000 ORDER BY SUM(total) DESC

4	product_name text	total_revenue numeric
1	SPICED RUM	31600618.50
2	PUERTO RICO & VIRGIN ISLANDS RUM	12729072.76
3	FLAVORED RUM	8029533.00
4	BARBADOS RUM	396024.49
5	JAMAICA RUM	371404.44

SELECT category_name, SUM(total)
FROM sales
GROUP BY category_name, description
HAVING description ILIKE '%whiskey%'
or description ILIKE '%vodka%'
AND SUM(total)>10000
ORDER BY sum(total) DESC

LIMIT 10;

4	category_name text	sum numeric
1	WHISKEY LIQUEUR	10622967.34
2	80 PROOF VODKA	8730823.84
3	IMPORTED VODKA	7431864.05
4	IMPORTED VODKA	6444939.38
5	80 PROOF VODKA	4876655.59
6	BLENDED WHISKIES	4330957.37
7	80 PROOF VODKA	3236508.16
8	80 PROOF VODKA	3093016.65
9	FLAVORED VODKA	2547677.99
10	IMPORTED VODKA	2334630.05

7. Which county sold the most amount of vodka during February 2014?

SELECT county, description, MAX(bottle_qty), date(date)

FROM sales

WHERE description ILIKE '%vodka%' AND date BETWEEN '2014-02-01' AND '2014-02-28'

GROUP BY county, description, date
ORDER BY MAX(bottle_qty) DESC

LIMIT 1;

4	county text	description text	max integer	date date △
1	Pottawattamie	UV Vodka PET	1800	2014-02-10

8. What is the trend of sales by month?

SELECT EXTRACT (year from date) AS year, EXTRACT (month from date) AS month,

CASE

WHEN btl_price < '\$50' THEN 'cheap'
WHEN btl_price BETWEEN '\$51' AND '\$200' THEN 'medium'
ELSE 'expensive'

END AS price_rank,

COUNT(btl_price)

FROM sales

GROUP BY 1,2,3;

	year double precision	month double precision	price_rank text	count bigint
1	2014	1	cheap	313624
2	2014	1	expensive	240
3	2014	1	medium	1464
4	2014	2	cheap	297206
5	2014	2	expensive	290
6	2014	2	medium	1334
7	2014	3	cheap	317964
8	2014	3	expensive	244
9	2014	3	medium	1732
10	2014	4	cheap	350588
11	2014	4	expensive	230
12	2014	4	medium	1668
13	2014	5	cheap	327042
14	2014	5	expensive	236
15	2014	5	medium	1754

9. A. Which stores sell one of the top five most expensive bottles of alcohol?

SELECT btl_price, bottle_qty, total, sales.store, stores.name FROM sales JOIN stores ON sales.store= stores.store ORDER BY btl_price DESC LIMIT 5

	4	btl_price money	bottle_qty integer	total numeric (10,2)	store integer	name text
l	1	\$8,700.00	1	8700.00	2590	Hy-vee Food Store #5 / Cedar Rapids
	2	\$8,700.00	1	8700.00	2588	Hy-Vee Food and Drug #6 / Cedar Rapi
	3	\$2,398.80	2	4797.60	3385	Sam's Club 8162 / Cedar Rapids
	4	\$2,398.80	1	2398.80	3494	Sam's Club 6514 / Waterloo
	5	\$2,398.80	1	2398.80	3477	Sam's Club 6472 / Council Bluffs