



## SQL- ASSIGNMENT-1 (ITEMS AND PRODCUTS DATABASE)

### ITEMS TABLE:

Item_Id	item_description	vendor_nos	vendor_name	bottle_size	bottle_price
1	Travis Hasse Apple Pie	305	Mhw Ltd	750	9.77
2	D'aristi Xtabentun	391	Anchor Distilling (preiss Imports)	750	14.12
3	Hiram Walker Peach Brandy	370	Pernod Ricard Usa/austin Nichols	1000	6.5
4	Oak Cross Whisky	305	Mhw Ltd	750	25.33
5	Uv Red(cherry) Vodka	380	Phillips Beverage Company	200	1.97
6	Heaven Hill Old Style White Label	259	Heaven Hill Distilleries Inc.	750	6.37
7	Hyde Herbal Liqueur	194	Fire Tail Brands Llc	750	5.06
8	Dupont Calvados Fine Reserve	403	Robert Kacher Selections	750	23.61

### PRODUCTS SALES TABLE:

Product_Id	Country	Product	Units Sold	Manufacturing Price	Sale Price	Gross Sales	Sales	COGS	Profit	Date	Month Number	Month Name	Year
1	Canada	Carretera	1618.5	3	20	32,370	32,370	16,185	16,185	1/1/2014	1	January	2014
2	Germany	Carretera	1321	3	20	26,420	26,420	13,210	13,210	1/1/2014	1	January	2015
3	France	Carretera	2178	3	15	32,670	32,670	21,780	10,890	6/1/2014	6	June	2016
4	Germany	Carretera	888	3	15	13,320	13,320	8,880	4,440	6/1/2014	6	June	2017
5	Mexico	Carretera	2470	3	15	37,050	37,050	24,700	12,350	6/1/2014	6	June	2018
6	Germany	Carretera	1513	3	350	529,550	529,550	393,380	136,170	12/1/2014	12	December	2019
7	Germany	Montana	921	5	15	13,815	13,815	9,210	4,605	3/1/2014	3	March	2020
8	Canada	Montana	2518	5	12	30,216	30,216	7,554	22,662	6/1/2014	6	June	2021

## Basics Questions:-

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1. Create two Databases Name :- Brands , and Products
2. Create two tables in SQL Server name as ITEMS\_TABLE in Brands database and PRODUCT\_TABLE in Products database.
3. After Creating both the tables Add records in that tables (records are available in ITEMS\_TABLE Sheet and PRODUCTS\_TABLE Sheet)
4. Delete those product having the Units Sold 1618.5 , 888 and 2470.
5. Select all records from the bottle\_info table.
6. Select the item\_description and bottle\_price for all items in the bottle\_info table.
7. Find the item\_description and bottle\_price of items where bottle\_price is greater than 20.
8. Select Unique Country from the product\_sales table
9. Count the number of Countries in the product\_sales table
10. How Many Countries are there which contain the sales price between 10 to 20

## Intermediate Questions

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### PRODUCTS\_SALES\_TABLE:-

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1. Find the Total Sale Price and Gross Sales
2. In which year we have got the highest sales
3. Which Product having the sales of \$ 37,050.00
4. Which Countries lies between profit of \$ 4,605 to \$ 22,662.00
5. Which Product Id having the sales of \$ 24,700.00
6. Find the total Units Sold for each Country.
7. Find the average sales for each country
8. Retrieve all products sold in 2014
9. Find the maximum Profit in the product\_sales table.
10. Retrieve the records from product\_sales where Profit is greater than the average Profit of all records.
11. Find the item\_description having the bottle size of 750
12. Find the vendor Name having the vendor\_nos 305, 380, 391
13. What is total Bottle\_price
14. Make Primary Key to Item\_id
15. Which item id having the bottle\_price of \$ 5.06

## Advance Questions:-

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1. Apply INNER , FULL OUTER , LEFT JOIN types on both the table
2. Find the item\_description and Product having the gross sales of 13,320.00
3. Split the Item\_description Column into Columns Item\_desc1 and Item\_desc2
4. Find the top 3 most expensive items in the bottle\_info table.
5. Find the total Gross Sales and Profit for each Product in each Country.
6. Find the vendor\_name and item\_description of items with a bottle\_size of 750 and bottle\_price less than 10.
7. Find the Product with the highest Profit in 2019.
8. Retrieve the Product\_Id and Country of all records where the Profit is at least twice the COGS.
9. Find the Country that had the highest total Gross Sales in 2018
10. Calculate the total Sales for each Month Name across all years.
11. List the item\_description and vendor\_name for items whose vendor\_nos exists more than once in the bottle\_info table.
12. Find the average Manufacturing Price for Product in each Country and only include those Country and Product combinations where the average is above 3

## Super-Advance Questions:-

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1. Find the item\_description and bottle\_price of items that have the same vendor\_name as items with Item\_Id 1.
2. Create a stored procedure to retrieve all records from the bottle\_info table where bottle\_price is greater than a given value
3. Create a stored procedure to insert a new record into the product\_sales table.
4. Create a trigger to automatically update the Gross\_Sales field in the product\_sales table whenever Units\_Sold or Sale\_Price is updated.
5. Write a query to find all item\_description in the bottle\_info table that contain the word "Whisky" regardless of case.
6. Write a query to find the Country and Product where the Profit is greater than the average Profit of all products.
7. Write a query to join the bottle\_info and product\_sales tables on a common field (e.g., vendor\_nos) and select relevant fields from both tables.
8. Write a query to combine item\_description and vendor\_name into a single string for each record in the bottle\_info table, separated by a hyphen.
9. Write a query to display the bottle\_price rounded to one decimal place for each record in the bottle\_info table.
10. Write a query to calculate the number of days between the current date and the Date field for each record in the product\_sales table.

