



SQL- ASSIGNMENT-1 (ITEMS AND PRODUCTS 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:-

- 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 ITEMS_TABLE table.**
- 6. Select the item_description and bottle_price for all items in the ITEMS_TABLE 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

PRODUCTS_SALES_TABLE:-

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:-

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 ITEMS_TABLE 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 ITEMS_TABLE 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:-

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 ITEMS_TABLE 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 ITEMS_TABLE 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 ITEMS_TABLE 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 ITEMS_TABLE table, separated by a hyphen.
9. Write a query to display the bottle_price rounded to one decimal place for each record in the ITEMS_TABLE 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.