**Basics Questions:-**

1) **Create two Databases Name :- Brands , and Products**

```
Create database Brands;
Create database Products;
```

2) **Create two tables in SQL Server name as ITEMS_Table in Brands database and PRODUCT_Table in Products database.**

```
Create table brands.items_table(
Item_Id int primary key auto-increment,
Item_Description varchar(75),
Vendor_nos int(5),
Vendor_name varchar(75),
Bottle_size int(5),
Bottle price decimal(5,3)
);

Create table product.product_table (
Product_Id int primary key auto-increment,
Country varchar(25),
Product varchar(25),
Units_Sold decimal(3,3),
Manufacturing_Price decimal(3,3),
Sales_Price  decimal(3,3),
Gross_Sales decimal(9,3),
Sales decimal(9,3),
COGS decimal(9,3),
Profit decimal(9,3),
Date date,
Month_Number int,
Month_Name varchar(20),
Year varchar(10)
);
```

3) **After Creating both the tables Add records in that tables (records are available above)**

```
-- Insert into Items_Table use Brands;
Insert into Items_Table (Item_Id, item_description, vendor_nos, vendor_name,
bottle_size, bottle_price)
VALUES
(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);

-- Insert into Product_Table use Products;
Insert into Product_Table (Product_Id, Country, Product, Units_Sold, Manufacturing_Price, Sale_Price, Gross_Sales, Sales, COGS, Profit, Date, Month_Number, Month_Name, Year)
VALUES
(1, 'Canada', 'Carretera', 1618.5, 3, 20, 32370, 32370, 16185, 16185, '2014-01-01', 1, 'January', 2014),
(2, 'Germany', 'Carretera', 1321, 3, 20, 26420, 26420, 13210, 13210, '2014-01-01', 1, 'January', 2015),
(3, 'France', 'Carretera', 2178, 3, 15, 32670, 32670, 21780, 10890, '2014-06-01', 6, 'June', 2016),
(4, 'Germany', 'Carretera', 888, 3, 15, 13320, 13320, 8880, 4440, '2014-06-01', 6, 'June', 2017),
(5, 'Mexico', 'Carretera', 2470, 3, 15, 37050, 37050, 24700, 12350, '2014-06-01', 6, 'June', 2018),
(6, 'Germany', 'Carretera', 1513, 3, 350, 529550, 529550, 393380, 136170, '2014-12-01', 12, 'December', 2019),
(7, 'Germany', 'Montana', 921, 5, 15, 13815, 13815, 9210, 4605, '2014-03-01', 3, 'March', 2020),
(8, 'Canada', 'Montana', 2518, 5, 12, 30216, 30216, 7554, 22662, '2014-06-01', 6, 'June', 2021);

4) **Delete those product having the Units Sold 1618.5 , 888 and 2470.**
Delete from Product_Table where Units_Sold IN (1618.5 , 888, 2470);

**5) DROP the table and Create it again.**

Drop table items_table;

Create table brands.items_table(
Item_Id int primary key auto-increment,
Item_Description varchar(75),
Vendor_nos int(5),
Vendor_name varchar(75),
Bottle_size int(5),
Bottle price decimal(5,3)
);

Drop table product_table;

Create table product.product_table (

```
    Product_Id int primary key auto-increment,
    Country varchar(25),
    Product varchar(25),
    Units_Sold decimal(3,3),
    Manufacturing_Price decimal(3,3),
    Sales_Price  decimal(3,3),
    Gross_Sales decimal(9,3),
    Sales decimal(9,3),
    COGS decimal(9,3),
    Profit decimal(9,3),
    Date date,
    Month_Number int,
    Month_Name varchar(20),
    Year varchar(10)
);
```

**Intermediate Questions**

**Big Table :--**

1) **Find the Total Sale Price  and  Gross Sales**
   Select sum(Sale_Price ) as Total_Sale_Price, sum(Gross_Sales) as Total_Gross_Sales from Product_Table;

2) **In which year we have got the highest sales**
   Select year from Product_Table order by sales limit 1;

3) **Which Product having the sales of $ 37,050.00**
   Select Product from Product_Table where Sales = 37,050.00;

4) **Which Countries lies between profit of $ 4,605 to $  22 , 662.00**
   Select distinct Country from Product_Table where Profit between 4,605  and 22 , 662.00;

5) **Which Product Id having the sales of $ 24 , 700.00**
   Select Product_Id from Product_Table where Sales = 24 , 700.00;

**Small Table :--**

1) **Find the item_description having the bottle size of 750**
   Select Item_Description from Items_table where Bottle_Size = 750;

2) **Find the vendor Name having the vendor_nos 305 , 380 , 391**
   Select Vendor_Name from Items_table where vendor_nos in (305, 380, 391);

3) **What is total Bottle_price**
   Select sum(Bottle_Price) as Total_Bottle_Price from Items_Table;

4) **Make Primary Key to Item_id**
   Alter table Items_Table add primary key (item_id);

5) **Which item id having the bottle_price of $ 5.06**
   Select Item_Id from Items_table where Bottle_Price = 5.06;

**Advance Questions:--**

1) **Apply INNER , FULL OUTER , LEFT JOIN types on both the table**

   INNER JOIN SELECT
   A.Item_Id, A.item_description, B.Product FROM Brands.dbo.ITEMS_TABLE A INNER JOIN Products.dbo.PRODUCT_TABLE B ON A.vendor_nos = B.Product_Id;

   -- FULL OUTER JOIN SELECT
   A.Item_Id, A.item_description, B.Product FROM Brands.dbo.ITEMS_TABLE A FULL OUTER JOIN Products.dbo.PRODUCT_TABLE B ON A.vendor_nos = B.Product_Id;

   -- LEFT JOIN SELECT A.Item_Id, A.item_description, B.Product FROM Brands.dbo.ITEMS_TABLE A LEFT JOIN Products.dbo.PRODUCT_TABLE B ON A.vendor_nos = B.Product_Id;

2) **Find the item_description and Product having the gross sales of 13,320.00**
   SELECT A.item_description, B.Product FROM Brands.dbo.ITEMS_TABLE A INNER JOIN Products.dbo.PRODUCT_TABLE B ON A.vendor_nos = B.Product_Id WHERE B.Gross_Sales = 13320;