

### SQL query for Project 3

#### File name: Dashboard.php

```
$query = "SELECT COUNT(Store_number) AS Total_Store FROM Store";  
$query = "SELECT COUNT(Manuf_name) AS Total_Manuf FROM Manufacturer";  
$query = "SELECT COUNT(PID) AS Total_Product FROM Product";  
$query = "SELECT COUNT(Email) AS Total_Manager FROM Manager";
```

#### File name: report1.php

```
$query = "SELECT Manufacturer.Manuf_name AS Manufacturer, COUNT(PID) AS  
Total_Product, AVG(Retail_price) AS Average_retail_price, MAX(Retail_price) AS Max_price,  
MIN(Retail_price) AS Min_price FROM Manufacturer, Product WHERE  
Manufacturer.Manuf_name=Product.Manuf_name GROUP BY Manufacturer.Manuf_name  
ORDER BY AVG (Retail_price) DESC LIMIT 100";
```

#### File name: view\_manuf\_detail.php

```
$query = "SELECT Max_discount From Manufacturer WHERE  
Manuf_name='$manufacturer';  
$query = "SELECT COUNT(PID) AS Total_Product, AVG(Retail_price) AS Average_retail_price,  
MAX(Retail_price) AS Max_price, MIN(Retail_price) AS Min_price FROM Product WHERE  
Manuf_name='$manufacturer';  
$query = "SELECT * From Product WHERE Manuf_name='$manufacturer' ORDER BY  
Retail_price DESC"
```

#### File name: report2.php

```
$query = "SELECT Category.Category_name, COUNT(Product.PID) AS Total_product,  
COUNT(DISTINCT Product.Manuf_name) AS Total_manufacturer, AVG(Retail_price) AS  
Average_price FROM Product, Category, ProductCategory, Manufacturer WHERE  
Product.PID=ProductCategory.PID AND  
Category.Category_name=ProductCategory.Category_name AND  
Product.Manuf_name=Manufacturer.Manuf_name GROUP BY Category_name ORDER BY  
Category_name";
```

#### File name: report3.php

```
$query = "SELECT gpsretail.PID AS PID, gpsretail.pname AS ProductName,  
gpssale.Retail_price AS RetailPrice, (gpsretail.TotalRetailQuantity + gpssale.TotalSaleQuantity) AS  
TotalSoldQuantity, gpssale.TotalSaleQuantity AS TotalSaleQuantity, gpsretail.TotalRetailQuantity  
AS TotalRetailQuantity, (gpsretail.TotalRetailRevenue + gpssale.TotalSaleRevenue) AS  
TotalRevenue, (gpsretail.TotalRetailRevenue + gpssale.TotalPredictRevenue) AS  
TotalPredictRevenue, gpssale.RevenueDifference AS Difference  
FROM (SELECT PID, pname, Retail_price, SUM(Sold_quantity) AS TotalRetailQuantity,  
Retail_price * SUM(Sold_quantity) AS TotalRetailRevenue  
FROM  
(SELECT DISTINCT sold.PID, product.pname, product.Retail_price, sold.Sold_quantity,  
sold.Sold_date
```

```

FROM sold NATURAL JOIN saleprice NATURAL JOIN product NATURAL JOIN productcategory
WHERE sold.Sold_date NOT IN
(SELECT saleprice.Sale_date FROM saleprice WHERE sold.PID = saleprice.PID)
AND productcategory.Category_name='GPS'
) AS g
GROUP BY g.PID) AS gpsretail,
(SELECT saleprice.PID, product.pname, SUM(saleprice.Sale_price*sold.Sold_quantity) AS
TotalSaleRevenue, SUM(sold.Sold_quantity) AS TotalSaleQuantity, product.Retail_price,
SUM(product.Retail_price*sold.Sold_quantity*0.75) AS TotalPredictRevenue,
SUM(sold.sold_quantity*0.75) AS TotalPredictQuantity,
SUM(saleprice.Sale_price*sold.Sold_quantity)-
SUM(product.Retail_price*sold.Sold_quantity*0.75) AS RevenueDifference
FROM productcategory, product, sold, saleprice
WHERE productcategory.PID=product.PID AND product.PID=sold.PID AND
sold.PID=saleprice.PID AND productcategory.Category_name='GPS' AND
saleprice.Sale_date=sold.Sold_date
GROUP BY saleprice.PID) AS gpssale
WHERE gpsretail.PID= gpssale.PID AND ABS(gpssale.RevenueDifference) > 5000
ORDER BY gpssale.RevenueDifference DESC";

```

File name: report4.php

```

$query = "SELECT DISTINCT Year(Date) AS Year, Store_number,Address, City, CAST(SUM(sale)
AS DECIMAL(10,2)) AS Revenue
FROM
(SELECT Store.Store_number AS Store_number, Store.Address AS Address, Store.City_name AS
City,Store.State AS State, Sold.Sold_date AS Date, Product.Retail_price*Sold_quantity AS sale
FROM SOLD INNER JOIN Product ON Sold.PID=Product.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
AND State='$selected_state'
WHERE (Sold.Sold_date, Sold.PID) IN
(SELECT Sold_date,Sold.PID FROM Sold LEFT OUTER JOIN SalePrice
ON Sold.PID=SalePrice.PID AND Sold.Sold_date=SalePrice.Sale_date
WHERE SalePrice.Sale_date IS NULL)
UNION
(SELECT Store.Store_number AS Store_number, Store.Address AS Address, Store.City_name AS
City,Store.State AS State, Sold.Sold_date AS Date, Sale_price*Sold_quantity AS sale
FROM SOLD INNER JOIN SalePrice ON Sold.PID=SalePrice.PID AND
Sold.Sold_date=SalePrice.Sale_date INNER JOIN Store
ON Sold.Store_number=Store.Store_number AND Store.State='$selected_state'))AS day
GROUP BY Store_number,Year,Address, City
ORDER BY Year ASC, Revenue DESC";

```

File name: report5.php

```

$query = "

```

```

SELECT s1.Year, Total_number, Average_number, SoldGD
FROM
(SELECT year(Sold.Sold_date) AS Year, SUM(Sold_quantity) AS Total_number,
SUM(Sold_quantity)/365 AS Average_number
FROM Sold INNER JOIN ProductCategory ON Sold.PID=ProductCategory.PID
WHERE ProductCategory.Category_name='Air Conditioner'
GROUP BY Year) AS s1
INNER JOIN
(SELECT year(Sold.Sold_date) AS Year, SUM(Sold_quantity) AS SoldGD
FROM Sold INNER JOIN ProductCategory ON Sold.PID=ProductCategory.PID
WHERE ProductCategory.Category_name='Air Conditioner' AND month(Sold_date)='02' AND
day(Sold_date)='02'
GROUP BY Year) AS s2 ON s1.Year=s2.Year";

```

File name: report6.php

```

$query = "SELECT DISTINCT year(Sold_date) AS year FROM Sold ORDER BY year";
$query = "SELECT DISTINCT month(Sold_date) AS month FROM Sold ORDER BY month";
$query = "
SELECT c1.Category_name, c1.State, c1.total AS Highest_volumn
FROM
(SELECT Category_name, State, SUM(Sold_quantity) AS total
FROM Sold
INNER JOIN ProductCategory ON Sold.PID=ProductCategory.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
WHERE year(Sold.Sold_date)='$YEAR' AND month(Sold.Sold_date)='$MONTH'
GROUP BY Category_name, State) AS c1 INNER JOIN
(SELECT Category_name, MAX(totalsold) AS Highest
FROM
(SELECT Category_name, State, SUM(Sold_quantity) AS totalsold
FROM Sold
INNER JOIN ProductCategory ON Sold.PID=ProductCategory.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
WHERE year(Sold.Sold_date)='$YEAR' AND month(Sold.Sold_date)='$MONTH'
GROUP BY Category_name, State) AS c2
GROUP BY Category_name) AS c3 ON c1.Category_name=c3.Category_name AND
c1.total=c3.Highest";

```

File name: report6\_detail.php

```

$query = "
SELECT City_name, Store.Store_number, Address, first_name, last_name, Email
FROM Store NATURAL JOIN City
LEFT JOIN AssignedManager ON Store.Store_number=AssignedManager.Store_number
NATURAL JOIN Manager
WHERE City.State='$State'

```

ORDER BY Store.Store\_number";

File name: report7.php

\$query = "

SELECT \*

FROM

(SELECT year(Sold\_date) AS Year, SUM(Sold\_value) AS SM\_Rev

FROM

(SELECT Sold.PID, Sold.Store\_number, City.City\_name, City.State, Sold.Sold\_Date,  
(Sold\_quantity\*Retail\_price) AS Sold\_value

FROM Sold

LEFT JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold\_date=SalePrice.Sale\_date

INNER JOIN Product ON Sold.PID=Product.PID

INNER JOIN Store ON Sold.Store\_number=Store.Store\_number

INNER JOIN City ON Store.City\_name=City.City\_name AND Store.State=City.State

WHERE Population<3700000 AND SalePrice.Sale\_price IS NULL

UNION

SELECT Sold.PID, Sold.Store\_number, City.City\_name, City.State, Sold.Sold\_Date,  
(Sold\_quantity\*Sale\_price) AS Sold\_value

FROM Sold

INNER JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold\_date=SalePrice.Sale\_date

INNER JOIN Product ON Sold.PID=Product.PID

INNER JOIN Store ON Sold.Store\_number=Store.Store\_number

INNER JOIN City ON Store.City\_name=City.City\_name AND Store.State=City.State

WHERE Population<3700000) AS c1

GROUP BY Year) AS b1

NATURAL JOIN

(SELECT year(Sold\_date) AS Year, SUM(Sold\_value) AS MED\_Rev

FROM

(SELECT Sold.PID, Sold.Store\_number, City.City\_name, City.State, Sold.Sold\_Date,  
(Sold\_quantity\*Retail\_price) AS Sold\_value

FROM Sold

LEFT JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold\_date=SalePrice.Sale\_date

INNER JOIN Product ON Sold.PID=Product.PID

INNER JOIN Store ON Sold.Store\_number=Store.Store\_number

INNER JOIN City ON Store.City\_name=City.City\_name AND Store.State=City.State

WHERE Population >=3700000 AND Population<6700000 AND SalePrice.Sale\_price IS NULL

UNION

SELECT Sold.PID, Sold.Store\_number, City.City\_name, City.State, Sold.Sold\_Date,  
(Sold\_quantity\*Sale\_price) AS Sold\_value

FROM Sold

INNER JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold\_date=SalePrice.Sale\_date

INNER JOIN Product ON Sold.PID=Product.PID

INNER JOIN Store ON Sold.Store\_number=Store.Store\_number

```

INNER JOIN City ON Store.City_name=City.City_name AND Store.State=City.State
WHERE Population >=3700000 AND Population<6700000) AS c2
GROUP BY Year) AS b2
NATURAL JOIN
(SELECT year(Sold_date) AS Year, SUM(Sold_value) AS LAR_Rev
FROM
(SELECT Sold.PID, Sold.Store_number, City.City_name, City.State, Sold.Sold_Date,
(Sold_quantity*Retail_price) AS Sold_value
FROM Sold
LEFT JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold_date=SalePrice.Sale_date
INNER JOIN Product ON Sold.PID=Product.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
INNER JOIN City ON Store.City_name=City.City_name AND Store.State=City.State
WHERE Population>=6700000 AND Population<9000000 AND SalePrice.Sale_price IS NULL
UNION
SELECT Sold.PID, Sold.Store_number, City.City_name, City.State, Sold.Sold_Date,
(Sold_quantity*Sale_price) AS Sold_value
FROM Sold
INNER JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold_date=SalePrice.Sale_date
INNER JOIN Product ON Sold.PID=Product.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
INNER JOIN City ON Store.City_name=City.City_name AND Store.State=City.State
WHERE Population>=6700000 AND Population<9000000) AS c3
GROUP BY Year) AS b3
NATURAL JOIN
(SELECT year(Sold_date) AS Year, SUM(Sold_value) AS EXTRAL_Rev
FROM
(SELECT Sold.PID, Sold.Store_number, City.City_name, City.State, Sold.Sold_Date,
(Sold_quantity*Retail_price) AS Sold_value
FROM Sold
LEFT JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold_date=SalePrice.Sale_date
INNER JOIN Product ON Sold.PID=Product.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
INNER JOIN City ON Store.City_name=City.City_name AND Store.State=City.State
WHERE Population>=9000000 AND SalePrice.Sale_price IS NULL
UNION
SELECT Sold.PID, Sold.Store_number, City.City_name, City.State, Sold.Sold_Date,
(Sold_quantity*Sale_price) AS Sold_value
FROM Sold
INNER JOIN SalePrice ON Sold.PID=SalePrice.PID AND Sold.Sold_date=SalePrice.Sale_date
INNER JOIN Product ON Sold.PID=Product.PID
INNER JOIN Store ON Sold.Store_number=Store.Store_number
INNER JOIN City ON Store.City_name=City.City_name AND Store.State=City.State
WHERE Population>=9000000) AS c4

```

GROUP BY Year) AS b4";

File name: manager.php

```
$query = "SELECT * FROM AssignedManager WHERE Email='$Manageremail'";  
$query = "DELETE FROM Manager WHERE Email='$Manageremail'";  
$query = "SELECT * FROM Manager";  
$query = "SELECT * From AssignedManager WHERE  
AssignedManager.Email='$manager_email'";
```

File name: add\_manager.php

```
$query = "SELECT Email FROM Manager";  
$query = "INSERT INTO Manager (Email, first_name, last_name, If_active) VALUES ('$Email',  
'$first_name', '$last_name', '$if_active')";  
$query = "INSERT INTO AssignedManager (Store_number, Email) VALUES ('$assigned_store',  
'$Email')";
```

File name: update\_manager.php

```
$query = "DELETE FROM AssignedManager WHERE Email='$Manageremail' AND  
Store_number='$unassignedStore';  
$query = "INSERT INTO AssignedManager VALUES ('$newassignedstore', '$Manageremail')";  
$query = "SELECT * FROM Manager Where Email='$Manageremail'";  
$query = "SELECT * FROM AssignedManager WHERE Email='$email'";
```

File name: City.php

```
$query = "SELECT * FROM City";  
$query = "UPDATE City SET Population=('$newpopulation') WHERE  
City_name='$Citywithchange' AND State='$Statewithchange';
```

Filename: Holiday

```
$query = "SELECT * FROM Holiday";  
$query = "SELECT Holiday_date FROM Holiday";  
$query = "INSERT INTO Holiday (Holiday_date, Holiday_name) VALUES ('$Newdate',  
'$holiday')";
```