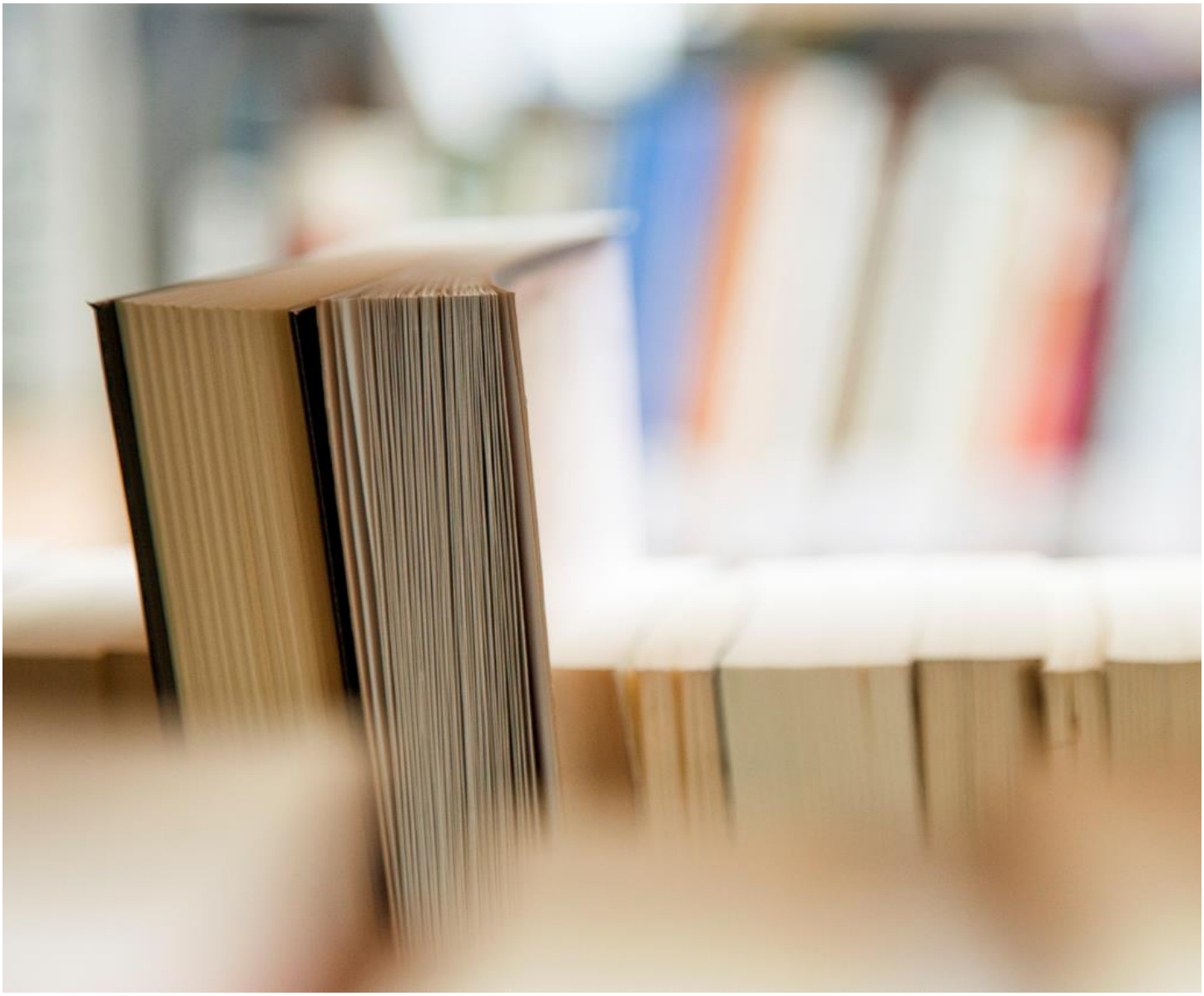


Cognizant Hands-On

COHORT CODE- INTEAS22OSP002

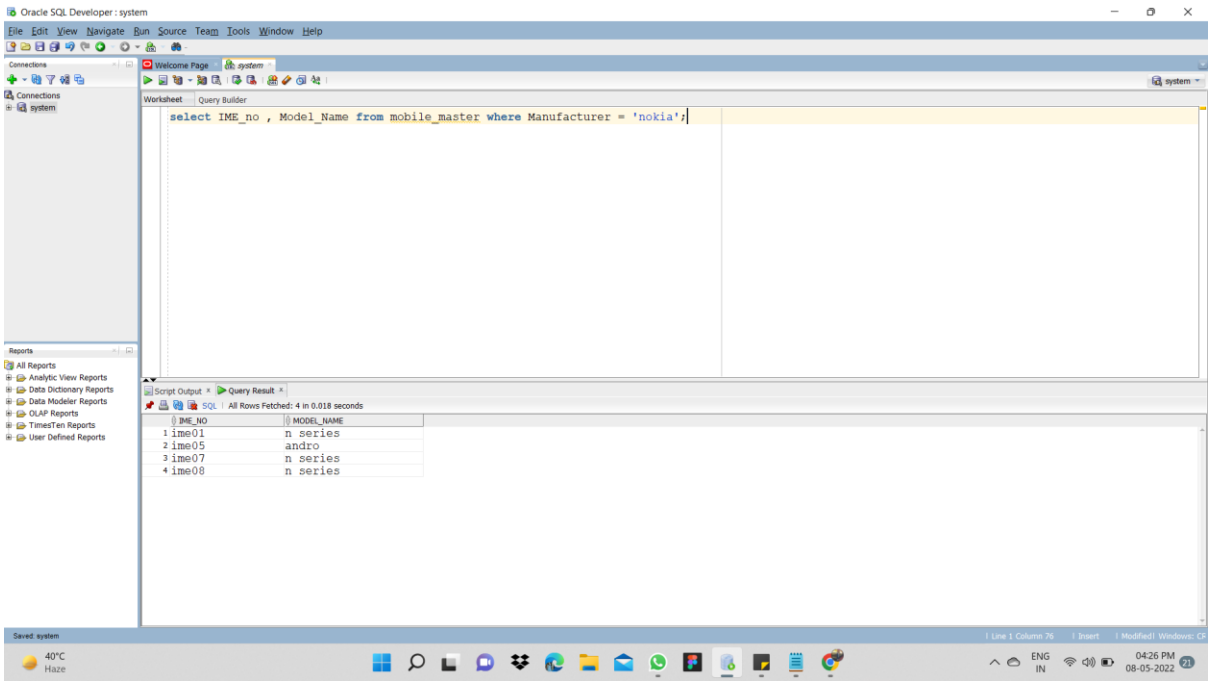
Ruchika Ramesh Jha 5/9/22 ORACLE/SQL

SQL USING ORACLE

1. Write a Query to Display the IME Number, Model Name of mobiles which is manufactured by "Nokia".

Solution:

```
select IME_no , Model_Name from mobile_master where Manufacturer = 'nokia';
```

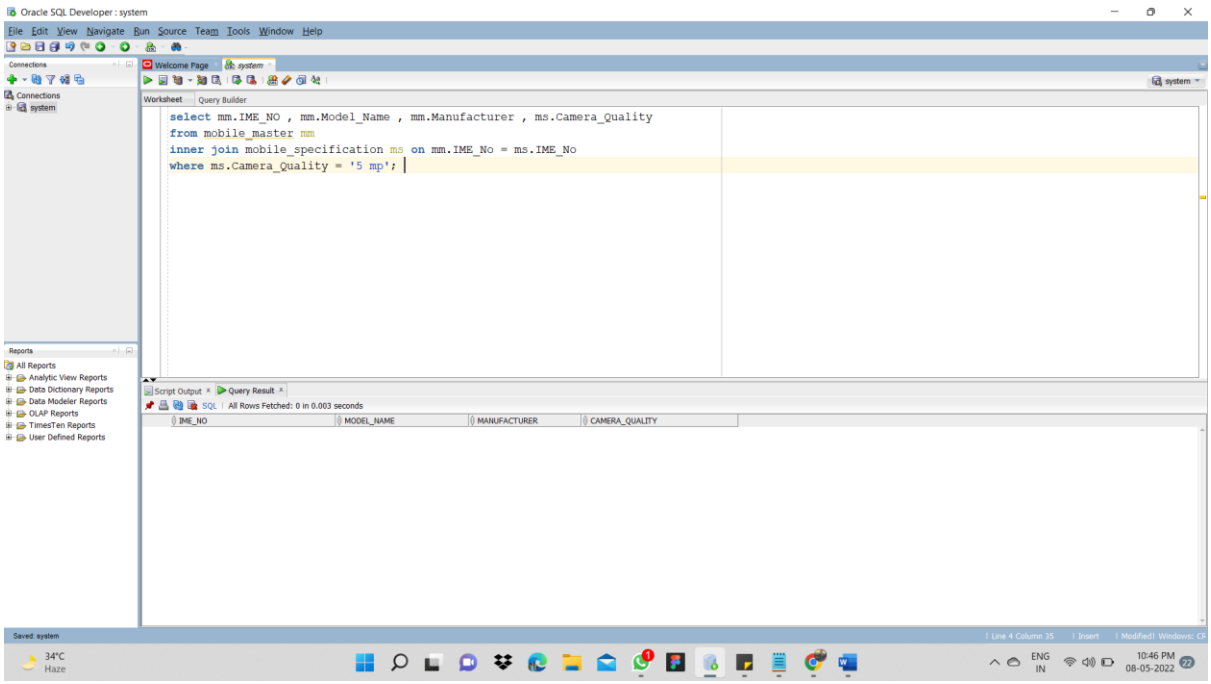


2. Write a Query to display IME number, Model Name, Manufacturer and Camera Quality of mobiles whose camera quality is 5MP.

Solution:

```
select mm.IME_NO , mm.Model_Name , mm.Manufacturer , ms.Camera_Quality
from mobile_master mm
inner join mobile_specification ms on mm.IME_No = ms.IME_No
where ms.Camera_Quality = '5 mp';
```

QUERY IS EMPTY BECAUSE WE DID NOT HAVE ANY MOBILE WHOSE QUALITY IS 5MP IN TABLE.



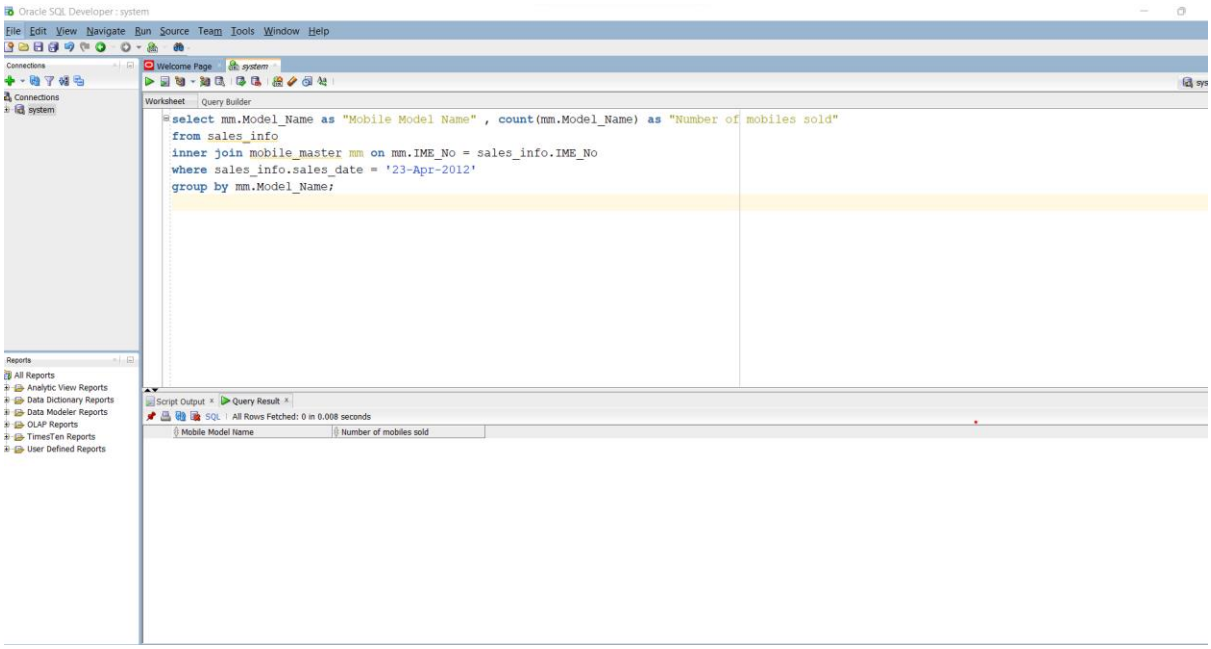
3. "Write a Query to display the Mobile Model Name and respective number of mobiles sold on the date 23-Apr-2012 for each mobile model.

Hint: For example, if 2 ""Nokia 1100"" and 1 ""Nokia C5-03"" are sold on the date 23-Apr-2012 then display both the records. Use ""NoofMobilesSold"" as alias name for the number of mobiles field."

Solution:

```
select mm.Model_Name as "Mobile Model Name" , count(mm.Model_Name) as "Number of mobiles sold"

from sales_info

inner join mobile_master mm on mm.IME_No = sales_info.IME_No

where sales_info.sales_date = '23-Apr-2012'

group by mm.Model_Name;
```

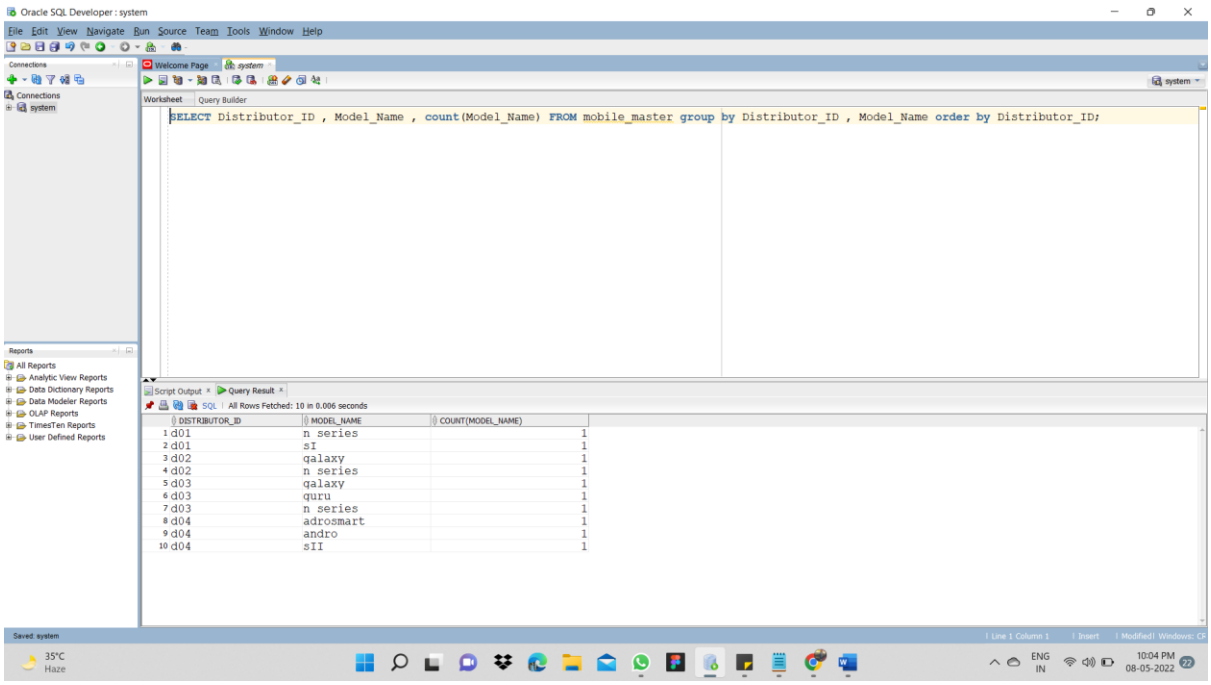
QUERY IS EMPTY BECAUSE WE DID NOT HAVE ANY RELATED DATA IN THE TABLE.



4. "Write a Query to display the distributor id, mobile model name, number of mobiles of the particular model name supplied to the distributors group by model name and distributor id and sort by the distributor id.

Solution:

SELECT Distributor_ID, Model_Name, count(Model_Name) FROM mobile_master group by Distributor_ID , Model_Name order by Distributor_ID;

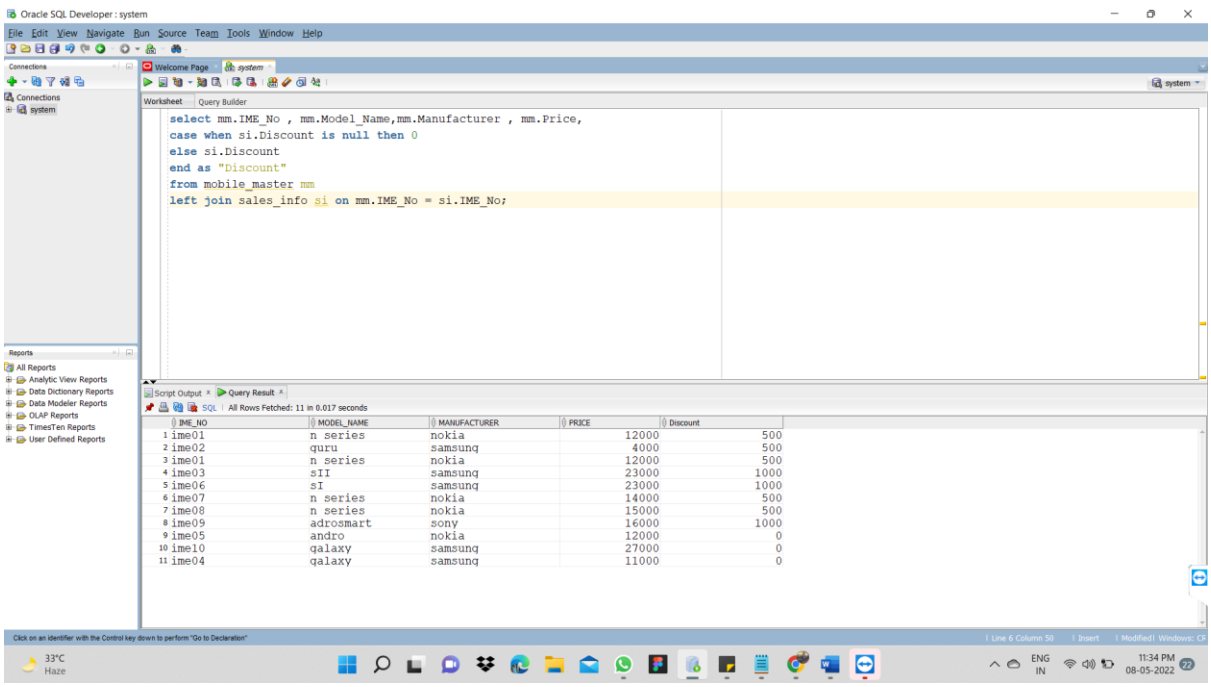


5. "Write a Query to display the IME number, model name, manufacturer, price and discount of all mobiles regardless of whether the mobile is sold or not. Hint: Fetch the price, IME no and model name from mobile_master table.

Example: For the mobile model ""Samsung GalaxyTAB with IME NO ""MC1000103"" is sold and other with IME No ""MC1000110"" is not sold. Then both the mobiles' details namely IME number, model name, manufacturer, price and discount needs to be displayed. "

Solution:

```
select mm.IME_No , mm.Model_Name,mm.Manufacturer , mm.Price,
case when si.Discount is null then 0
else si.Discount
end as "Discount"
from mobile_master mm
left join sales_info si on mm.IME_No = si.IME_No;
```

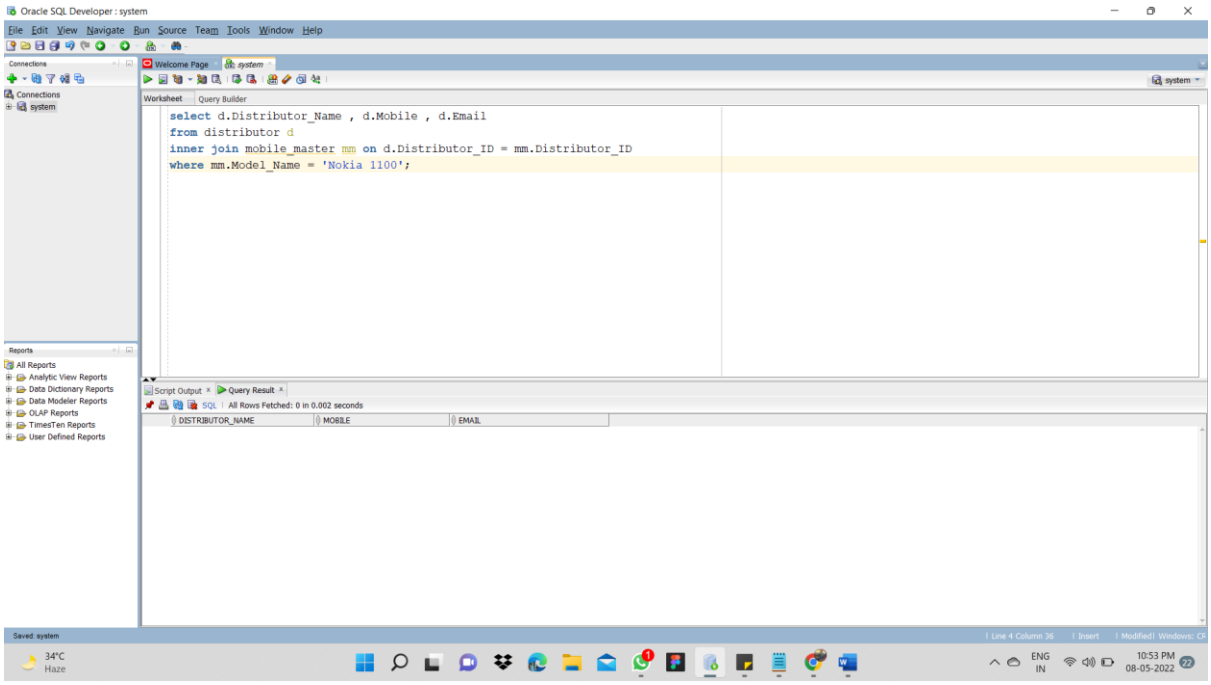


6. Write a Query to display the distributor name, mobile number and email of distributors selling model 'Nokia 1100'.

Solution:

```
select d.Distributor_Name , d.Mobile , d.Email
from distributor d
inner join mobile_master mm on d.Distributor_ID = mm.Distributor_ID
where mm.Model_Name = 'Nokia 1100';
```

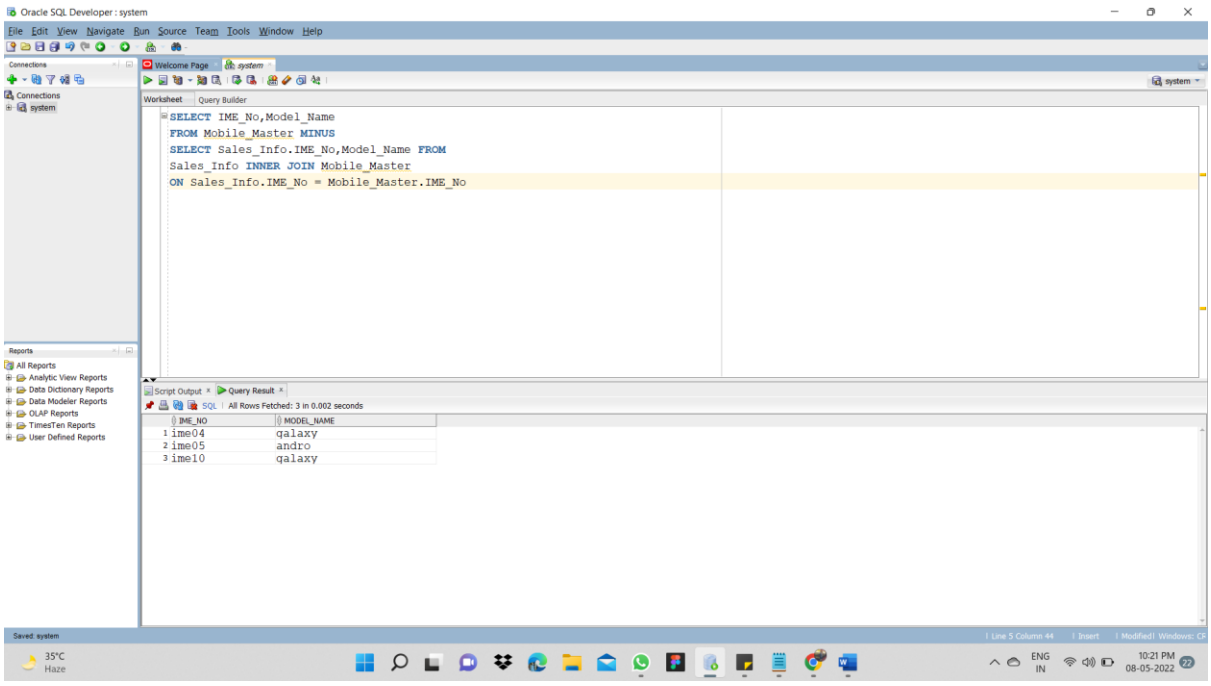
QUERY IS EMPTY BECAUSE WE DID NOT HAVE ANY RELATED DATA IN THE TABLE.



7. Write a Query to display the IME Number and Model Name of mobiles which are not sold. Hint: The details of the sold mobiles are available in the "SALES_INFO" table and the overall mobile models are available in the mobile_master table.

Solution:

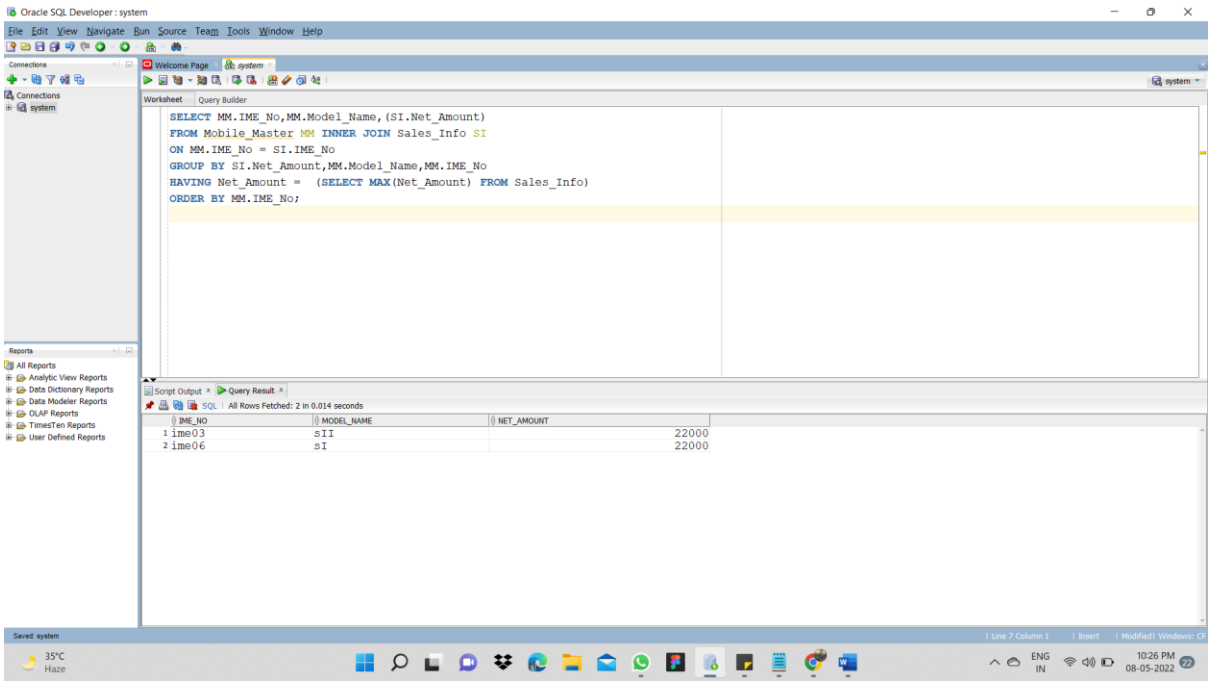
```
SELECT IME_No,Model_Name
FROM Mobile_Master MINUS
SELECT Sales_Info.IME_No,Model_Name FROM
Sales_Info INNER JOIN Mobile_Master
ON Sales_Info.IME_No = Mobile_Master.IME_No;
```



8. Write a Query to display the IME Number, Model Name and net amount of the mobile which has the highest net amount.

Solution:

```
SELECT MM.IME_No,MM.Model_Name,(SI.Net_Amount)
FROM Mobile_Master MM INNER JOIN Sales_Info SI
ON MM.IME_No = SI.IME_No
GROUP BY SI.Net_Amount,MM.Model_Name,MM.IME_No
HAVING Net_Amount =  (SELECT MAX(Net_Amount) FROM Sales_Info)
ORDER BY MM.IME_No;
```

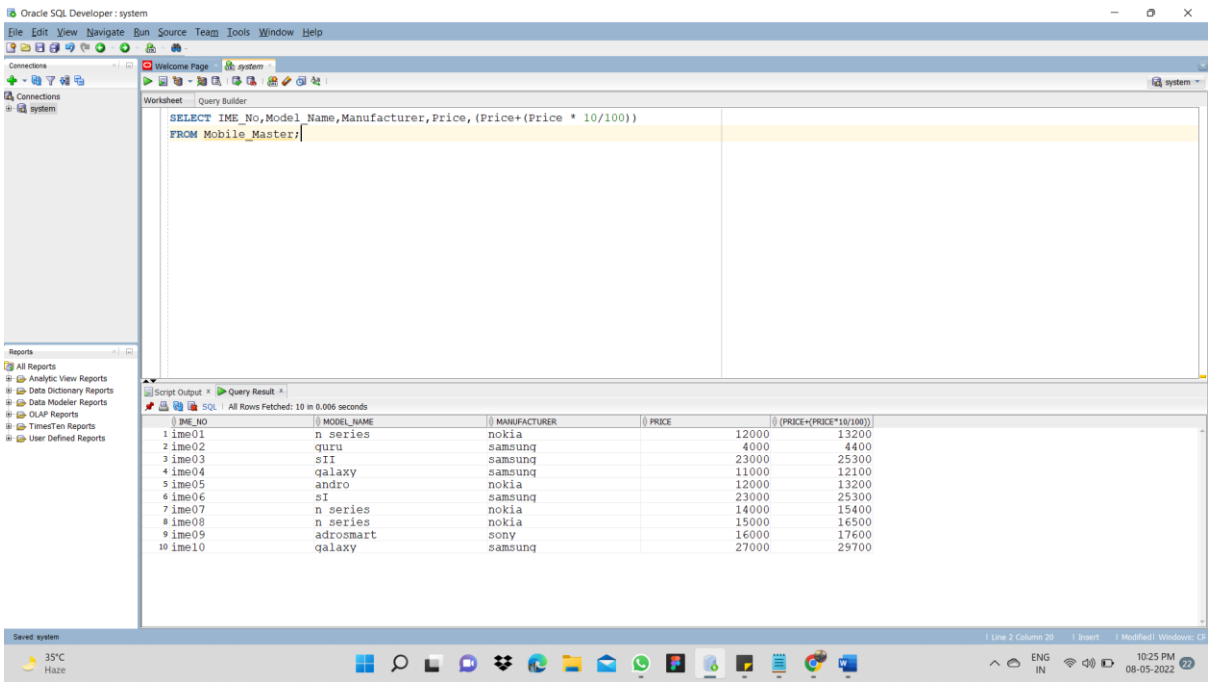


9. "Write a Query to display the IME Number, Model Name, Manufacturer, Price and New Price of all mobiles.

Hint: Fetch the price, name and IME number from mobile master table. Add 10% to the old price to find new price and display with alias name ""NewPrice"". Formula = price + (price * 10/100)"

Solution:

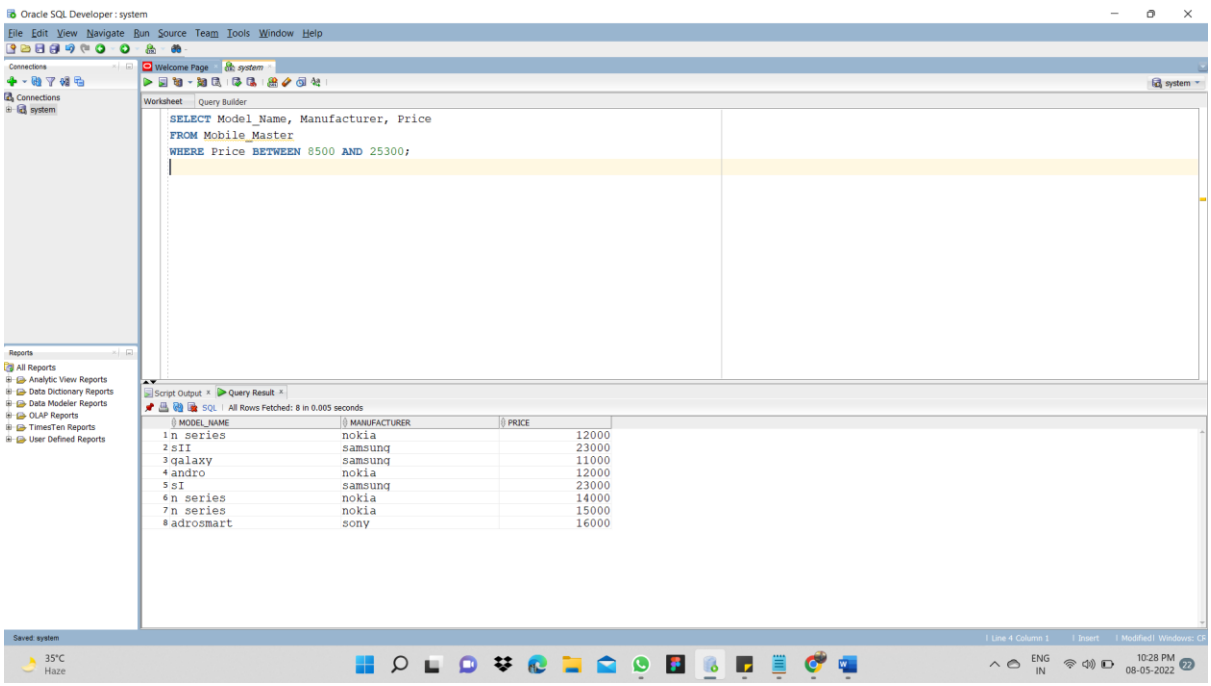
```
SELECT IME_No,Model_Name,Manufacturer,Price,(Price+(Price * 10/100))
FROM Mobile_Master
```



10. Write a Query to display mobile model name, manufacturer and price for the mobiles having a price range between 8500 and 25300.

Solution:

```
SELECT Model_Name, Manufacturer, Price
FROM Mobile_Master
WHERE Price BETWEEN 8500 AND 25300;
```

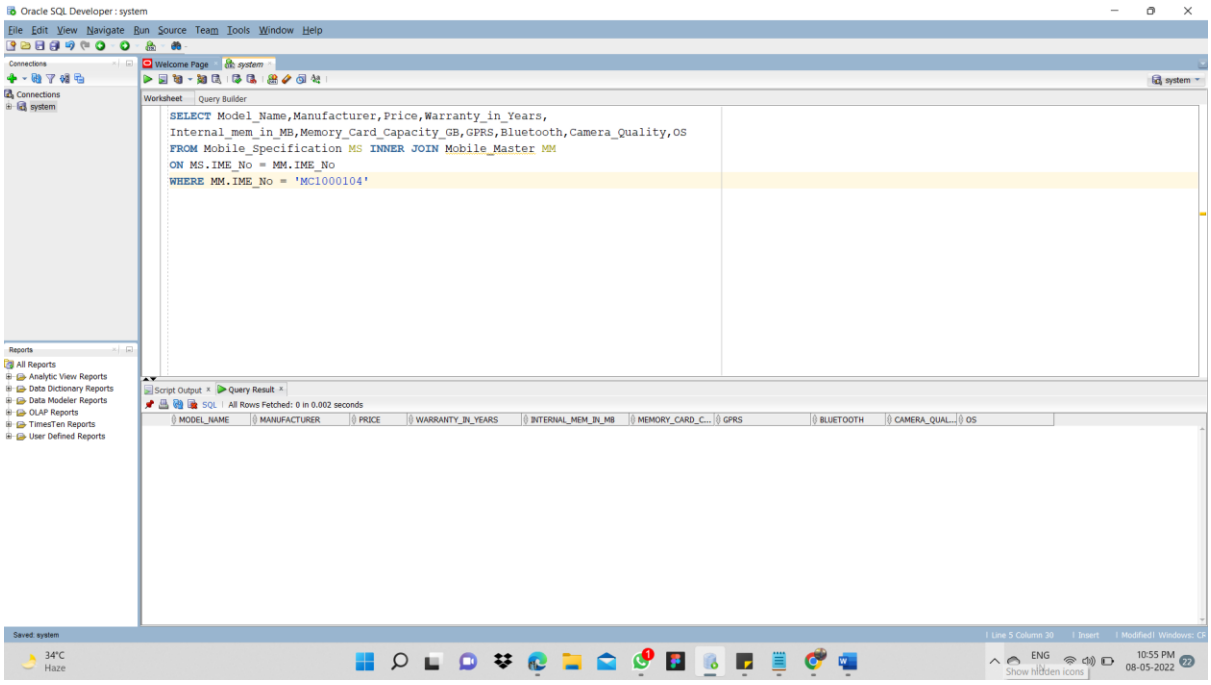


11. Write a Query to display the Model Name, Manufacturer, Price, Warranty, Internal memory, memory card capacity, gprs support, Bluetooth, camera quality and OS for the mobile with IME NO "MC1000104"

Solution:

```
SELECT Model_Name,Manufacturer,Price,Warranty_in_Years,
Internal_mem_in_MB,Memory_Card_Capacity_GB,GPRS,Bluetooth,Camera_Quality,OS
FROM Mobile_Specification MS INNER JOIN Mobile_Master MM
ON MS.IME_No = MM.IME_No
WHERE MM.IME_No = 'MC1000104'
```

QUERY IS EMPTY BECAUSE WE DID NOT HAVE ANY RELATED DATA IN THE TABLE.

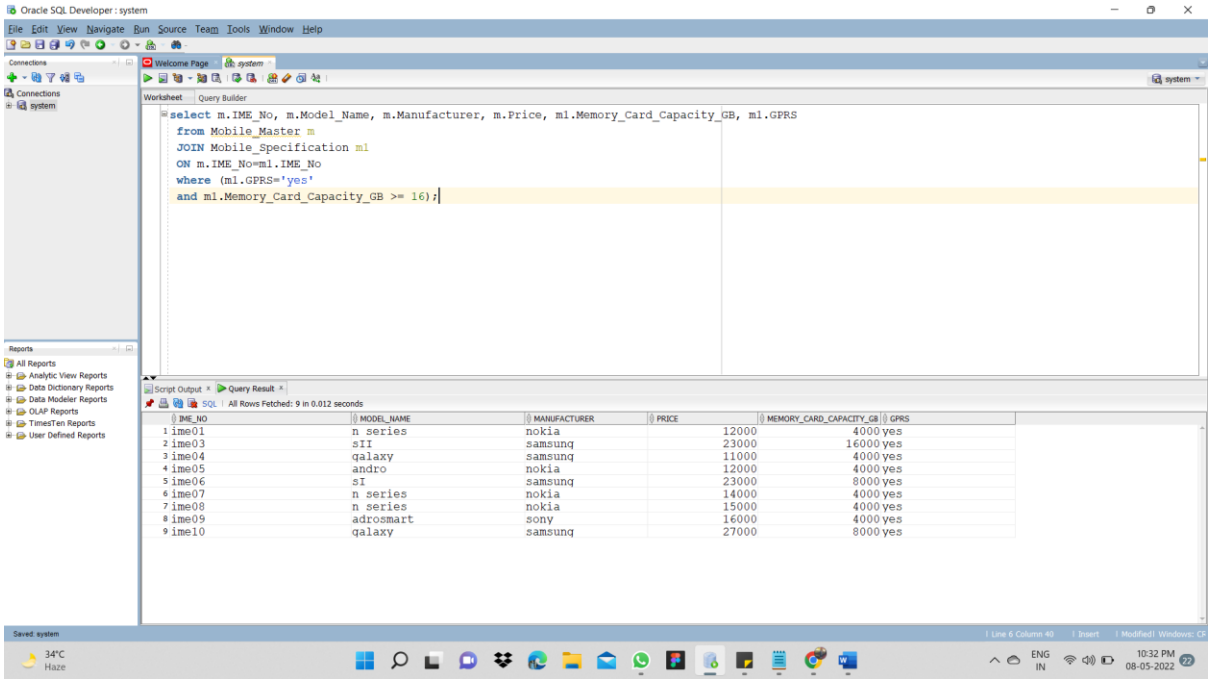


12. "Write a Query to display IME Number, Model Name, Manufacturer, Price ,GPRS information, Memory card capacity of mobiles which has GPRS support with memory card capacity 16GB or above.

Hint: For GPRS support use GPRS = “Yes”."

Solution:

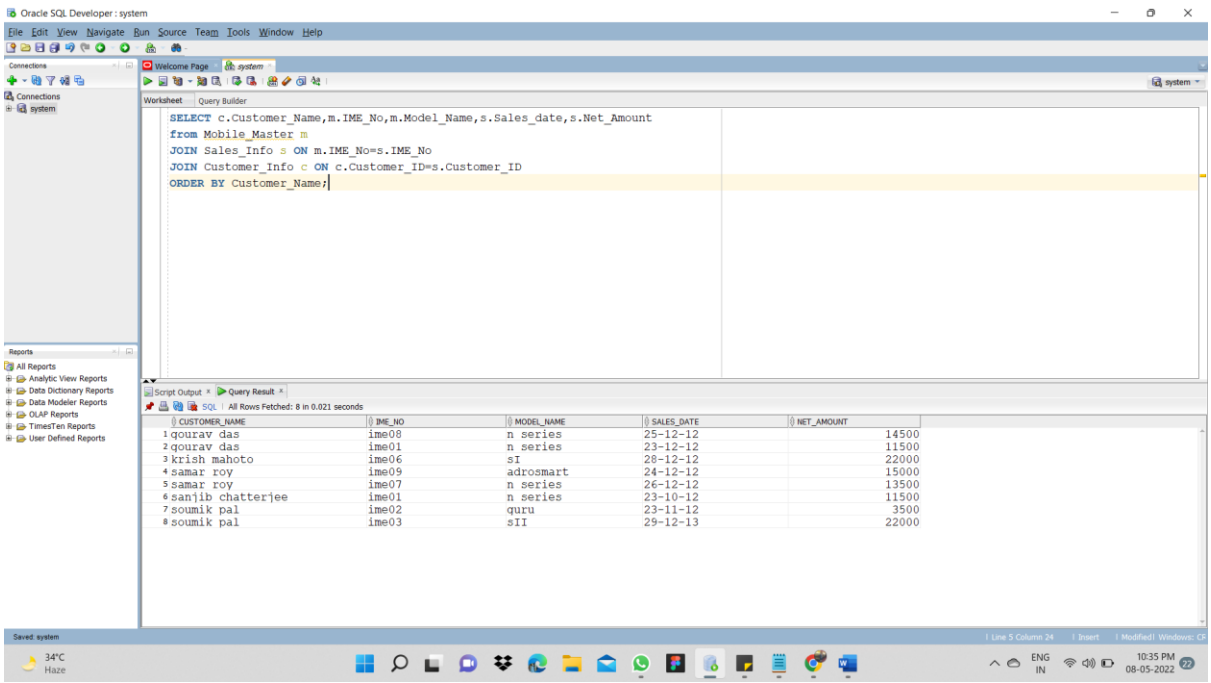
```
select m.IME_No, m.Model_Name, m.Manufacturer, m.Price, m1.Memory_Card_Capacity_GB, m1.GPRS
 from Mobile_Master m
 JOIN Mobile_Specification m1
 ON m.IME_No=m1.IME_No
 where (m1.GPRS='yes'
 and m1.Memory_Card_Capacity_GB >= 16);
```



13. Write a Query to display the customer name, IME Number, Model Name, Sales Date and Net amount paid by the customer and sort by customer name in ascending order.

Solution:

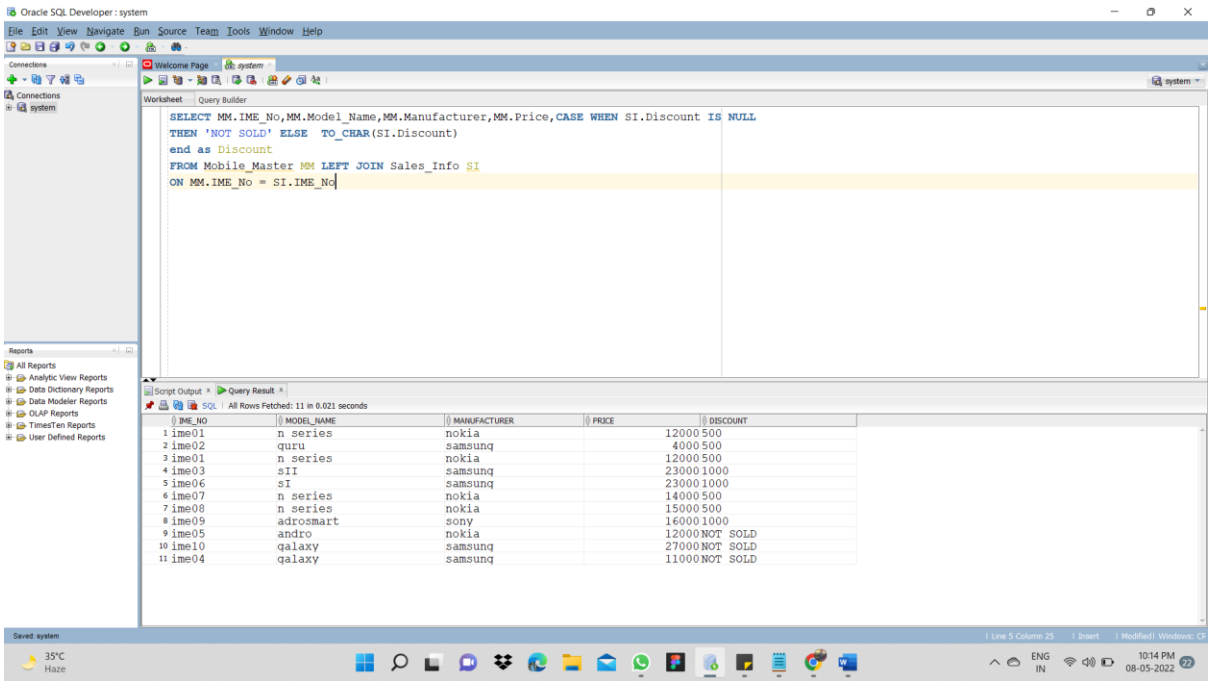
```
SELECT
c.Customer_Name,m.IME_No,m.Model_Name,s.Sales_date,s.Net_Amount
from Mobile_Master m
JOIN Sales_Info s ON m.IME_No=s.IME_No
JOIN Customer_Info c ON c.Customer_ID=s.Customer_ID
ORDER BY Customer_Name;
```



14. "Write a Query to display the IME Number, model name, manufacturer, price and discount of all mobiles regardless of whether the mobile is sold or not. Hint: If not sold, display discount as ""Not Sold""

Solution:

```
SELECT MM.IME_No,MM.Model_Name,MM.Manufacturer,MM.Price,CASE
WHEN SI.Discount IS NULL
THEN 'NOT SOLD' ELSE  TO_CHAR(SI.Discount)
end as Discount
FROM Mobile_Master MM LEFT JOIN Sales_Info SI
ON MM.IME_No = SI.IME_No
```



15. Write a Query to display the sales date and total net amount of all the mobiles based on the sales date that are sold between 20-APR-12 and 25-APR-12. Hint: Total net amount column should be displayed as "TotalNetAmount" (alias)

Solution:

```
SELECT si.Sales_Date, sum(si.Net_Amount)as "TotalNetAmount"
FROM sales_info si
WHERE si.sales_date BETWEEN TO_DATE('2012-04-20','YYYY-MM-DD') and TO_DATE('2012-04-25','YYYY-MM-DD')
GROUP BY si.sales_date;
```

QUERY IS EMPTY BECAUSE WE DID NOT HAVE ANY RELATED DATA IN THE TABLE.