TASK 6

Scalar Subquery

SELECT CustomerName

FROM Customers

WHERE CustomerID = (

   SELECT CustomerID

   FROM Orders

   ORDER BY Price DESC

   LIMIT 1

);

	CustomerName
1	Yashvi Gondaliya

Grid view | Form view — Total rows loaded: 1

Subquery in WHERE with IN

SELECT CustomerName, City

FROM Customers

WHERE CustomerID IN (

   SELECT DISTINCT CustomerID

   FROM Orders

);
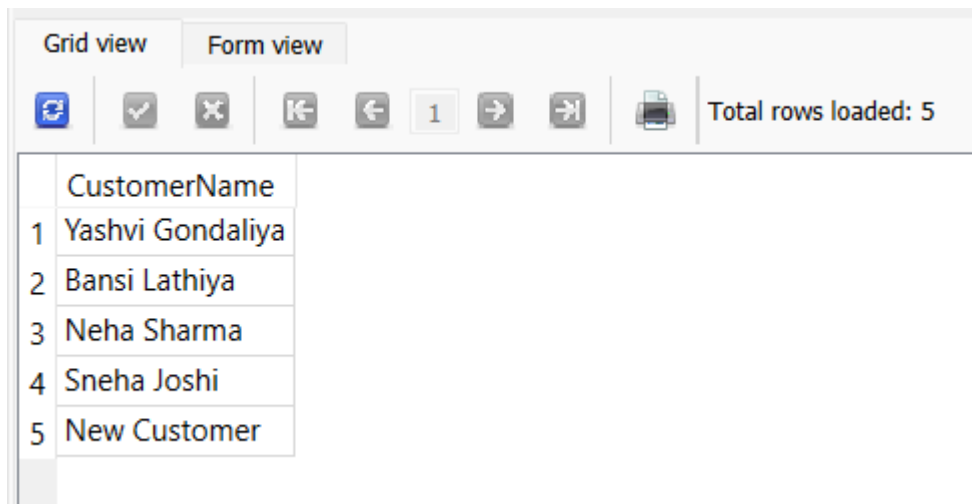
Grid view | Form view — Total rows loaded: 5

	CustomerName	City
1	Yashvi Gondaliya	Surat
2	Bansi Lathiya	Ahmedabad
3	Neha Sharma	Vadodara
4	Sneha Joshi	Rajkot
5	New Customer	Mumbai

EXISTS Subquery

SELECT CustomerName

FROM Customers c

WHERE EXISTS (

   SELECT 1

   FROM Orders o

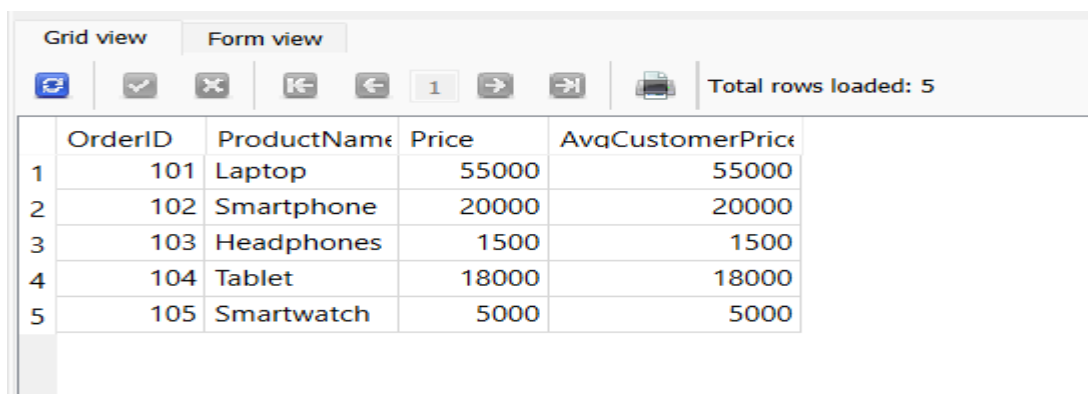   WHERE o.CustomerID = c.CustomerID

);

	CustomerName
1	Yashvi Gondaliya
2	Bansi Lathiya
3	Neha Sharma
4	Sneha Joshi
5	New Customer

Grid view / Form view — Total rows loaded: 5

Correlated Subquery

SELECT o.OrderID, o.ProductName, o.Price,

    (SELECT AVG(Price)

     FROM Orders

     WHERE CustomerID = o.CustomerID) AS AvgCustomerPrice

FROM Orders o;

	OrderID	ProductName	Price	AvgCustomerPrice
1	101	Laptop	55000	55000
2	102	Smartphone	20000	20000
3	103	Headphones	1500	1500
4	104	Tablet	18000	18000
5	105	Smartwatch	5000	5000

Grid view / Form view — Total rows loaded: 5

Subquery in FROM Clause (Derived Table)

SELECT c.CustomerName, totals.TotalAmount

FROM (

   SELECT CustomerID, SUM(Price * Quantity) AS TotalAmount

   FROM Orders

   GROUP BY CustomerID

) AS totals

JOIN Customers c ON totals.CustomerID = c.CustomerID;

	CustomerName	TotalAmount
1	Yashvi Gondaliya	55000
2	Bansi Lathiya	40000
3	Neha Sharma	4500
4	Sneha Joshi	18000
5	New Customer	10000

Grid view   Form view

Total rows loaded: 5