Group Assignment#1

SQL QUERIES & OUTPUTS

PROG8651 – Section 10

Group C

Kaushalkumar Jagdishbhai Parmar

Saraswat Gaurav

Patel Shivamkumar prakashbhai

Kaur,Jaspreet

Deepika,Deepika

Bathul khanam

Due Date – 02-02-2024

CONESTOGA COLLEGE - PROGRAM 1372

Question #1:

| SQL Query |
| --- |
| SELECT *
 FROM Category |

Snippet of output

	ProductCategoryID	CategoryName	DESCRIPTION	DateModified
1	2000	Accessory	Accessory products	2020-10-04
2	2001	Perishable	Perishable Products	2020-09-06
3	2002	Miscellaneous	Miscellaneous products	2021-09-08
4	2003	Machinery	Machinery products	2020-12-10
5	2004	Perishable	Perishable products	2020-12-11
6	2005	Accessory	Accessory products	2022-09-12
7	2006	Miscellaneous	Miscellaneous products	2023-09-14
8	2007	Machinery	Machinery Parts	2023-12-15
9	2008	Perishable	Perishable products	2019-09-16
10	2009	Machinery	Machinery Parts	2019-09-17

Question #2:

SQL Query
SELECT *   FROM CustomerOrder,Shipmentmethod   WHERE CustomerOrder.ShipmentMethodID=ShipmentMethod.ShipmentMethodID

Snippet of output

	OrderID	CustomerID	PaymentID	OrderStatusID	ShipmentMethodID	ShippingAddressID	SubTotal	Tax	TotalPaid	DatePaid	EstDateShipped	ActualDateShipped	DateModified	ShipmentMethodID	ShipmentMode	ShipmentClass	ShipmentTim
1	300	501	21	110	10	5	100	10	110	2019-09-27	2020-08-28	2020-08-28	2023-09-26	10	Air	Overnight	3 days
2	301	502	36	120	20	6	150	15	165	2019-09-28	2023-08-29	2023-09-29	2023-09-26	20	Ground	Standard	4 days
3	302	503	47	130	30	7	120	12	132	2021-09-29	2023-09-30	2023-09-30	2023-09-26	30	Pickup	Priority	Same day
4	303	504	45	140	40	8	90	9	99	2023-09-30	2020-10-01	2023-10-01	2023-09-26	40	Air	Standard	5 days
5	304	505	52	150	50	9	200	20	220	2023-10-01	2020-10-02	2020-10-02	2021-09-26	50	Air	Priority	2 days
6	305	506	13	160	60	10	75	8	83	2020-10-02	2023-10-03	2023-10-03	2023-09-26	60	Ground	Overnight	1 day
7	306	507	20	170	70	11	180	18	198	2023-10-03	2021-10-04	2021-10-04	2023-09-26	70	Air	Standard	3 days
8	307	508	41	180	80	12	100	10	110	2020-10-04	2023-10-05	2023-10-05	2023-09-26	80	Ground	Priority	2 days
9	308	509	62	190	90	13	120	12	132	2019-10-05	2020-10-06	2020-10-06	2021-09-26	90	Pickup	Standard	Same day
10	309	510	84	200	100	14	150	15	165	2023-10-06	2023-10-07	2023-10-07	2023-09-26	100	Pickup	Priority	2 days

Question #3:

SQL Query

`SELECT CO.OrderID, CO.TotalPaid, SM.ShipmentMode`
`FROM CustomerOrder AS CO`
`JOIN ShipmentMethod AS SM`
`ON CO.ShipmentMethodID = SM.ShipmentMethodID;`

Snippet of output

Results Messages

	OrderID	TotalPaid	ShipmentMode
1	300	110	Air
2	301	165	Ground
3	302	132	Pickup
4	303	99	Air
5	304	220	Air
6	305	83	Ground
7	306	198	Air
8	307	110	Ground
9	308	132	Pickup
10	309	165	Pickup

Question #4:

SQL Query

`SELECT *`
`FROM CustomerOrder`
`WHERE TotalPaid < 1000`

Snippet of output

Results Messages

	OrderID	CustomerID	PaymentID	OrderStatusID	ShipmentMethodID	ShippingAddressID	SubTotal	Tax	TotalPaid	DatePaid	EstDateShipped	ActualDateShipped	DateModified
1	300	501	21	110	10	5	100	10	110	2019-09-27	2020-08-28	2020-08-28	2023-09-26
2	301	502	36	120	20	6	150	15	165	2019-09-28	2023-08-29	2023-09-29	2023-09-26
3	302	503	47	130	30	7	120	12	132	2021-09-29	2023-09-30	2023-09-30	2023-09-26
4	303	504	45	140	40	8	90	9	99	2023-09-30	2020-10-01	2023-10-01	2023-09-26
5	304	505	52	150	50	9	200	20	220	2023-10-01	2020-10-02	2020-10-02	2021-09-26
6	305	506	13	160	60	10	75	8	83	2020-10-02	2023-10-03	2023-10-03	2023-09-26
7	306	507	20	170	70	11	180	18	198	2023-10-03	2021-10-04	2021-10-04	2023-09-26
8	307	508	41	180	80	12	100	10	110	2020-10-04	2023-10-05	2023-10-05	2023-09-26
9	308	509	62	190	90	13	120	12	132	2019-10-05	2020-10-06	2020-10-06	2021-09-26
10	309	510	84	200	100	14	150	15	165	2023-10-06	2023-10-07	2023-10-07	2023-09-26

Question #5:

SQL Query
| ```sql
SELECT s.*
FROM ShipmentMethod AS s
INNER JOIN CustomerOrder AS c
 ON c.shipmentmethodid = s.shipmentmethodid
WHERE c.ESTdateshipped = c.actualdateshipped;
``` |

Snippet of output

Results   Messages

	ShipmentMethodID	ShipmentMode	ShipmentClass	ShipmentTime	FreightCost	DateModified
1	10	Air	Overnight	3 days	45.000	2022-10-02
2	30	Pickup	Priority	Same day	60.000	2022-09-05
3	50	Air	Priority	2 days	75.000	2022-09-07
4	60	Ground	Overnight	1 day	88.000	2022-09-08
5	70	Air	Standard	3 days	50.000	2022-09-09
6	80	Ground	Priority	2 days	110.000	2022-09-10
7	90	Pickup	Standard	Same day	55.000	2022-09-11
8	100	Pickup	Priority	2 days	98.000	2022-09-12

Question #6:

SQL Query
| ```sql
SELECT OrderID
FROM CustomerOrder co
JOIN OrderStatus os ON co.OrderStatusID = os.OrderStatusID
WHERE CAST(os.Description AS varchar(max)) = 'In transit'
   OR CAST(os.Description AS varchar(max)) = 'Delayed';
``` |

Snippet of output

Results   Messages

	OrderID
1	302
2	303
3	307
4	308

Question #7:

SQL Query
| ```sql
    SELECT P.Description FROM PRODUCT AS P
INNER JOIN REVIEW AS RS ON P.PRODUCTID=RS.PRODUCTID AND rs.RATING >=4
``` |

Snippet of output

Results Message

	Description
1	Mangoes
2	Television
3	Fridge
4	Blanket
5	Chocolate
6	Laptop

Question #8:

SQL Query
| ```sql
SELECT S.SHIPMENTMODE, COUNT(C.ORDERID) as TotalOrders
FROM CustomerOrder AS C
INNER JOIN SHIPMENTMETHOD AS S
ON C.SHIPMENTMETHODID = S.SHIPMENTMETHODID
GROUP BY S.SHIPMENTMODE;
``` |

Snippet of output

Results Messages

	SHIPMENTMODE	TotalOrders
1	Air	4
2	Ground	3
3	Pickup	3

Question #9:<mark>(* WE did not use any null value)</mark>

SQL Query
| ```sql
SELECT P.*
FROM PRODUCT AS P
LEFT JOIN PRODUCTSELECTION AS PS
 ON P.PRODUCTID = PS.PRODUCTID
WHERE PS.ORDERID IS NULL;
``` |
| Snippet of output |
| ⊞ Results 📇 Messages

ProductID	Description	ProductCategoryID	Package	WeightQty	WeightUnits	Price	Dimensions	DateModified

Question #10:

SQL Query
| ```sql
SELECT ORDERID,CUSTOMERID
FROM CustomerOrder
WHERE MONTH(ActualDateShipped) = 9;
``` |
| Snippet of output |
| ⊞ Results 📇 Messages

	ORDERID	CUSTOMERID
1	301	502
2	302	503

Question #11:

SQL Query
SELECT ORDERID,CUSTOMERID FROM CustomerOrder WHERE DATEPART(YEAR,ESTDATESHIPPED)<2022

Snippet of output

Results   Messages

	ORDERID	CUSTOMERID
1	300	501
2	303	504
3	304	505
4	306	507
5	308	509

Question #12:

SQL Query
SELECT ORDERID,CUSTOMERID FROM CustomerOrder WHERE DATEPART(YEAR,ACTUALDATESHIPPED)!=2023 AND DATEPART(month,ACTUALDATESHIPPED)=10

Snippet of output

Results   Messages

	ORDERID	CUSTOMERID
1	304	505
2	306	507
3	308	509

Question #13:

SQL Query
```SELECT * FROM PRODUCT WHERE Price IN``` ```(SELECT MAX(Price) FROM PRODUCT)```

Snippet of output

Results   Messages

	ProductID	Description	ProductCategoryID	Package	WeightQty	WeightUnits	Price	Dimensions	DateModified
1	4009	Rose	2009	N/A	1000	Gram	60.00	22x22x18	2021-09-26

Question #14:

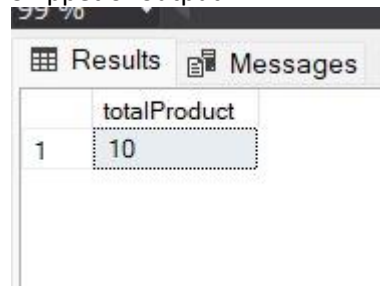| SQL Query |
| --- |
| ```SELECT TOP 3 orderid,max(unitpricesold) As Price``` ```FROM ProductSelecTION``` ```GROUP BY orderid``` ``` ORDER BY MAX(UnitPriceSold) DESC``` |

Snippet of output

Results   Messages

	orderid	Price
1	304	100
2	306	65
3	302	45

Question #15:

SQL Query
| ```sql
SELECT COUNT(DISTINCT ProductID) as totalProduct
FROM ProductSelection;
``` |

Snippet of output
99 %
⊞ Results 📄 Messages

	totalProduct
1	10	

Question #16:

SQL Query
| ```sql
SELECT CustomerID, COUNT(OrderID) AS NumberOfOrders
FROM CustomerOrder
 GROUP BY CustomerID;
``` |

Snippet of output
		CustomerID	NumberOfOrders
----	------------	----------------
1	501	1
2	502	1
3	503	1
4	504	1
5	505	1
6	506	1
7	507	1
8	508	1
9	509	1
10	510	1	

Question #17:

SQL Query
SELECT * FROM PRODUCT WHERE ProductID IN (SELECT ProductID FROM REVIEW WHERE Rating BETWEEN 3 and 5) AND ProductCategoryID IN (SELECT ProductCategoryID FROM Category WHERE CategoryName = 'Perishable' OR CategoryName = 'Miscellaneous');

Snippet of output

	ProductID	Description	ProductCategoryID	Package	WeightQty	WeightUnits	Price	Dimensions	DateModified
1	4001	Badminton	2001	Box	750	Gram	30.00	12x12x8	2020-09-26
2	4002	Television	2002	bag	5	Kilogram	15.00	8x8x3	2019-09-26
3	4004	Blanket	2004	N/A	1500	Gram	50.00	20x20x15	2019-09-26
4	4006	Chocolate	2006	Tin	500	Gram	35.00	14x14x9	2019-09-26
5	4008	Laptop	2008	Gift box	1500	Gram	45.00	18x18x12	2022-09-26

Question #18:

SQL Query
SELECT * FROM CUSTOMERORDER WHERE ORDERID IN (SELECT ORDERID FROM PRODUCTSELECTION WHERE PRODUCTID IN (SELECT PRODUCTID FROM PRODUCT WHERE PACKAGE='Gift box'))

Snippet of output

	OrderID	CustomerID	PaymentID	OrderStatusID	ShipmentMethodID	ShippingAddressID	SubTotal	Tax	TotalPaid	DatePaid	EstDateShipped	ActualDateShipped	DateModified
1	303	504	45	140	40	8	90	9	99	2023-09-30	2020-10-01	2023-10-01	2023-09-26
2	308	509	62	190	90	13	120	12	132	2019-10-05	2020-10-06	2020-10-06	2021-09-26

Question #19:

```sql
SQL Query
SELECT CO.OrderID, CO.CustomerID
FROM CUSTOMERORDER CO
JOIN PRODUCTSELECTION PS ON CO.OrderID = PS.OrderID
JOIN PRODUCT P ON PS.ProductID = P.ProductID
WHERE (P.WeightQty > 1 AND P.WeightUnits = 'Kilogram')
    OR (P.WeightQty = 1000 AND P.WeightUnits = 'Gram');
```

Snippet of output

	OrderID	CustomerID
1	300	501
2	302	503
3	303	504
4	309	510

Question #20:

```sql
SQL Query
SELECT CR.ORDERID,CR.CUSTOMERID,P.PRODUCTID,P.DESCRIPTION
FROM CUSTOMERORDER AS CR INNER JOIN PRODUCTSELECTION
AS PS ON PS.ORDERID=CR.ORDERID INNER JOIN PRODUCT AS P ON
P.PRODUCTID=PS.PRODUCTID
```

Snippet of output

Results | Messages

	ORDERID	CUSTOMERID	PRODUCTID	DESCRIPTION
1	300	501	4000	Mangoes
2	301	502	4001	Badminton
3	302	503	4002	Television
4	303	504	4003	Fridge
5	304	505	4004	Blanket
6	305	506	4005	Candle
7	306	507	4006	Chocolate
8	307	508	4007	Air Fryer
9	308	509	4008	Laptop
10	309	510	4009	Rose