

**Table: customer**

Column Name	Data type and size	Constraints	Description
customerid	VARCHAR2(5)	PRIMARY KEY, CHECK	unique id of each customer, should start with 'C'
customername	VARCHAR2(15)		name of the customer
location	VARCHAR2(15)		location of the customer

The giftorder table provides the order details.

**Table: giftorder**

Column Name	Data type and size	Constraints	Description
orderid	NUMBER	PRIMARY KEY	unique id of each order
customerid	VARCHAR2(5)	FOREIGN KEY	references customerid present in the customer table
giftid	VARCHAR2(5)	FOREIGN KEY	references giftid present in the gift table
quantity	NUMBER		number of units ordered
shippingcity	VARCHAR2(15)		city, to which the gift has to be shipped

**Table: customer**

Column Name	Data type and size	Constraints	Description
customerid	VARCHAR2(5)	PRIMARY KEY, CHECK	unique id of each customer, should start with 'C'
customername	VARCHAR2(15)		name of the customer
location	VARCHAR2(15)		location of the customer

The giftorder table provides the order details.

**Table: giftorder**

Column Name	Data type and size	Constraints	Description
orderid	NUMBER	PRIMARY KEY	unique id of each order
customerid	VARCHAR2(5)	FOREIGN KEY	references customerid present in the customer table
giftid	VARCHAR2(5)	FOREIGN KEY	references giftid present in the gift table
quantity	NUMBER		number of units ordered
shippingcity	VARCHAR2(15)		city, to which the gift has to be shipped

Sample data for gift table

giftid	giftname	category	price	discount	availability
G101	Dream Catcher	Showpiece	500	10	63
G102	Cinnamon Candles	Home Decor	550	5	35
G103	Watch Box	Utilities	2000	20	18
G104	Music Plant Lamp	Home Decor	1500	15	5
G105	Crystal Platter	Utilities	2999	7	10
G106	Crystal Chariot	Showpiece	2000	15	32
G107	Wood Coaster Set	Utilities	1300	30	30
G108	Golden Foil Rose	Showpiece	500	30	30
G109	Photo Frames	Home Decor	500	30	30

Sample data for customer table

customerid	customername	location
C101	Jack	Delhi
C102	John	Bangalore
C103	Sam	Mumbai
C104	Andrew	Bangalore
C105	Anne	Delhi
C106	Maria	Mumbai
C107	Jeny	Bangalore

Sample data for giftorder table

orderid	customerid	giftid	quantity	shippingcity
1001	C102	G104	2	Delhi
1002	C103	G102	5	Bangalore
1003	C105	G101	3	Bangalore
1004	C102	G104	1	Bangalore
1005	C101	G103	9	Mysore
1006	C102	G101	8	Mumbai
1007	C105	G106	4	Chennai
1008	C105	G107	4	Chennai
1009	C105	G108	5	Mumbai
1010	C106	G105	6	Mysore

Write SQL Queries for the following

[20 marks]

Important Note: For the given requirements, display UNIQUE records wherever applicable

- A. Display the numeric part of **giftid** as “**GIFTNUM**” (column alias), **giftname** and reduction in price per quantity rounded to the nearest whole number as “**PRICEREDUCTION**” (column

Write SQL Queries for the following

[20 marks]

Important Note: For the given requirements, display UNIQUE records wherever applicable

- A. Display the numeric part of **giftid** as “**GIFTNUM**” (column alias), **giftname** and reduction in price per quantity rounded to the nearest whole number as “**PRICEREDUCTION**” (column alias) of the ‘Utilities’ category gifts.

For the given sample data, following record will feature as part of the output along with other record(s).

GIFTNUM	GIFTNAME	PRICEREDUCTION
103	Watch Box	400

Note: Type the solution in **dbms\_solA.sql** file.

[2 marks]

- B. Display **customerid** and **giftid** of the giftorders which are been ordered for the gifts of the category *other* than the ‘Home Decor’.

For the given sample data, following records will feature as part of the output along with other record(s).

CUSTOMERID	GIFTID
C105	G106
C101	G103

- B. Display **customerid** and **giftid** of the giftorders which are been ordered for the gifts of the category *other* than the 'Home Decor'.

For the given sample data, following records will feature as part of the output along with other record(s).

CUSTOMERID	GIFTID
C105	G106
C101	G103

Note: Type the solution in **dbms\_solB.sql** file.

[2 marks]

- C. Display **giftid** and **orderid** as "**ORDERS**" (column alias) of all the gifts that are been shipped to 'Mysore' city. Display 'NA' in **ORDERS** for the gifts that are not been shipped to 'Mysore' and also for the unordered gifts.

For the given sample data, following records will feature as part of the output along with other record(s).

GIFTID	ORDERS
G105	1010
G104	NA

- C. Display **giftid** and **orderid** as “**ORDERS**” (column alias) of all the gifts that are been shipped to ‘Mysore’ city. Display ‘NA’ in **ORDERS** for the gifts that are not been shipped to ‘Mysore’ and also for the unordered gifts.

For the given sample data, following records will feature as part of the output along with other record(s).

GIFTID	ORDERS
G105	1010
G104	NA

Note: Type the solution in *dbms\_solC.sql* file.

[2 marks]

- D. Display **giftid**, **giftname**, **availability** and *number of times* the order placed as “**NOOFORDERS**” (column alias) for those gifts that are available more than 40 units and has been ordered twice or more times.

For the given sample data, following is the expected output.

GIFTID	GIFTNAME	AVAILABILITY	NOOFORDERS
G101	Dream Catcher	63	2

Note: Type the solution in *dbms\_solD.sql* file.

[2 marks]



- E. Display **orderid** as “**ORDERNUM**” (column alias) and **customerid** as “**CUSTOMER**” (column alias) for *all* the orders as well as for *all* the customers. Display ‘N’ in **CUSTOMER** for customers who do not belong to ‘Bangalore’ and ‘NA’ in **ORDERNUM** if the order is not placed or if the order is placed by the customers who do not belong to ‘Bangalore’.

For the given sample data, following records will feature as part of the output along with other record(s).

ORDERNUM	CUSTOMER
1001	C102
1010	N
NA	C101

Note: Type the solution in **dbms\_solE.sql** file.

[3 marks]

- F. Display **orderid**, **customerid** and **giftid** for those giftorders that are been placed by the same customer for the ‘Home Decor’ category gifts.

For the given sample data, following record will feature as part of the output along with other record(s).

ORDERID	CUSTOMERID	GIFTID
1004	C102	G104



G. Identify the customer who has paid the *highest total* billamount. Display the **customerid**, **customername** and *highest total* billamount as "**TOTALBILL**" (column alias). **TOTALBILL** has to be rounded to the nearest whole number. *Billamount* can be calculated using price, discount and quantity.

For the given sample data, following is the expected output.

CUSTOMERID	CUSTOMERNAME	TOTALBILL
C106	Maria	16734

Note: Type the solution in *dbms\_solG.sql* file.

[3 marks]

H. Identify the giftorders that are been placed by the customers from 'Delhi' for the gifts *other* than 'Showpiece' category and are been shipped to 'Chennai' city. Display **orderid**, **giftid** and **customerid** for the identified giftorder.

For the given sample data, following is the expected output.

ORDERID	GIFTID	CUSTOMERID
1008	G107	C105

Write the query using the Correlated Subquery concept only.

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```
1 SELECT substr(giftid,2) AS giftnum,giftname, round(discount*price/100) AS pricereduction
2 FROM gift
3 WHERE category='Utilities'
```


Results

Explain

SQL

Testcase Verification

Assessment Verification

 Bravo ! Your solution is correct .

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```
1 SELECT DISTINCT G1.CUSTOMERID,G1.GIFTID
2 FROM giftorder G1 INNER JOIN gift G2 ON G1.GIFTID=G2.GIFTID
3 WHERE CATEGORY <> 'Home Decor'
```

Testcase Verification

### Assessment Verification



Bravo ! Your solution is correct .

Results Explain SQL

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```
1 SELECT G.giftid,nvl(to_char(G1.orderid),'NA') AS orders
2 FROM gift G LEFT OUTER JOIN giftorder G1 ON G.GIFTID=G1.GIFTID AND G1.SHIPPINGCITY='NVSOURCE'
3
4
```

Testcase Verification

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dbms\_solH

```
1 SELECT g.giftid,g.giftname,g.availability,count(gf.giftid) AS nooforders
2 FROM gift g,giftorder gf
3 WHERE g.giftid=gf.giftid AND g.availability>40
4 GROUP BY g.giftid,g.giftname,g.AVAILABILITY
5 HAVING count(gf.GIFTID)>1
```

Testcase Verification

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```
1 SELECT NVL(to_char(orderid,'NA')) AS ordernum, nvl(c.customerid,'N') AS customer
2 FROM customer c FULL JOIN giftorder g
3 ON c.customerid=g.customerid AND location='Bangalore'
```

Testcase Verification

### Assessment Verification



Bravo ! Your solution is correct .

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```
1 SELECT DISTINCT gf.orderid ,gf.customerid,gf.giftid
2 FROM giftorder gf, gift g, giftorder gf1
3 WHERE g.GIFTID=gf.GIFTID AND gf.customerid=gf1.customerid AND g.category = 'Home Decor'
4 GROUP BY gf.ORDERID,gf.CUSTOMERID,gf.GIFTID
5 HAVING count(gf.CUSTOMERID)>1
```

Testcase Verification

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dbms\_solAdbms\_solBdbms\_solCdbms\_solDdbms\_solEdbms\_solFdbms\_solGdbms\_solH

```
1 SELECT gfo.customerid,customername,round(sum(price*quantity*(1-discount/100))) totalbill
2 FROM giftorder gfo,gift g,customer c WHERE gfo.GIFTID=g.GIFTID AND gfo.CUSTOMERID=c.CUSTOMERID
3 GROUP BY gfo.CUSTOMERID,customername
4 HAVING round(sum(price*quantity*(1-discount/100)))=
5 (SELECT round(max(sum(price*quantity*(1-discount/100)))) FROM giftorder gfo,gift g WHERE gfo.GIFTID=g.GIFTID GROUP BY customerid)
```

Testcase Verification

Assessment Verification

 Bravo ! Your solution is correct .

ResultsSQL

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dbms\_solH

```
1 SELECT gf.orderid,gf.giftid,gf.customerid
2 FROM giftorder gf
3 WHERE gf.CUSTOMERID=
4 (SELECT c1.customerid FROM customer c1 WHERE location = 'Delhi' AND c1.CUSTOMERID=gf.CUSTOMERID )
5 AND gf.GIFTID=
6 (SELECT g1.giftid FROM gift g1 WHERE category <> 'Showpiece' AND g1.GIFTID=gf.GIFTID)
7 AND gf.ORDERID=
8 (SELECT gf1.orderid FROM giftorder gf1 WHERE shippingcity = 'Chennai' AND gf1.ORDERID=gf.ORDERID )
```

Testcase Verification

Assessment Verification

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