business scenario:

Description unique id of each

Column Name Data type and size

To manage the transactions on the website the following database schema has been designed. The gift table provides details of the gift items.

VADCHAD2/6V

Table: gift

alfeld

girtid	VARCHAR2(3)	CHECK	'G'
giftname	VARCHAR2(20)	UNIQUE, NOT NULL	description of the gift
category	VARCHAR2(15)		type of the gift
price	NUMBER	CHECK	price of the gift, should be greater than 0
discount	NUMBER		discount applicable in percentage
availability	NUMBER		number of units

Constraints

PRIMARY KEY,

Gift-A-Gift.com is a website to order and send across wide range of gifts.

The customer table provides the details of the customers.

Table: customer

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.

Sample data for gift table

giftname

Dream Catcher

Cinnamon Candles

Watch Box

giftid

G101

G102

G103

G104 Music Plant Lamp		Home Dec	or	r 1500		15	
G105 Crystal Platter		Utilities		2999		7	
G106 Crystal Charlot		Showpiec	e	200	0	15	
G107	Woo	d Coaster Set	Utilities		130	0	30
G108	Gol	den Foil Rose	Showpiec	e	500)	30
G109	Ph	oto Frames	Home Dec	or	500)	30
		or customer ta					
		ustomername					
C101		Jack	Delhi				
C102	!	John	Bangalore				
C103		Sam	Mumbai				
C104		Andrew	Bangalore				
C105		Anne	Delhi				
C106		Maria	Mumbai				
C107		Jeny	Bangalore				
Sample o	lata f	or giftorder tal	ble				
orde	rid	customerid	giftid	qua	ntity	shi	ppingc
100	1	C102	G104		2		Delhi

category

Showpiece

Home Decor

Utilities

price

500

550

2000 20

discount availability

10

1002 C103 G102 Bangalore 1003 C105 G101 Bangalore 1004 C102 G104 Bangalore 1005 C101 G103 Q Mysore 1006 C102 G101 8 Mumbai 1007 C105 G106 4 Chennai 1008 C105 G107 4 Chennai 1009 C105 G108 Mumbai 1010 C106 G105 Mysore

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).



				CUSTOMERID %	▼ GIFTID %
CUSTOMERID	GIFTID	☐ dbms_solB ☒ ☐ dbms_solA ☐ dbms_solC	1	C102	G101
C105	G106	1 SELECT DISTINCT	2	C105	G101
C101	G103	2 gfo.customerid,gfo.giftid	3	C105	G106
3 FROM gi		3 FROM gift g, giftorder gfo	4	C105	G108
		4 WHERE g.giftid=gfo.giftid	5	C105	G107
			6	C106	G105
te: Type the solution in dbms s		5 AND g.category != 'Home Decor'	7	C101	G103

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).

		。 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
GIFTID	ORDERS	dbms_solB dbms_solA dbms_solC 22 dbms_solD dd
G105	1010	1 SELECT gfo.giftid,
G104	NA	2 NVL (to char(gfol.orderid), 'NA') AS orders
		FROM gift gfo LEFT JOIN giftorder gfol ON gfo.giftid=gfol.GIFTID AND gfol.SHIPPINGCITY = 'Mysoce'



Note: Type the solution in dbms_solC.sql file.

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



Display 'N' in CUSTOMER for customers who do not belong to 'Bangalore' and 'NA' in ORDERNUM if the order is not T ordernum & T CUSTOMER & 1008 placed or if the order is placed by the customers who do not belong to 'Bangalore'. q 1000 For the given sample data, following records will feature as part of the output along with other record(s). 10 1010 11 NA C107 dhms sniD III dbms solE 32 dbms solf ORDERNUM CUSTOMER dbms solB dhme sold dhms solf C105 12 NA 1001 1 SELECT MVL(to char(ORDERID), 'NA') AS ordernum, MVL(to charoc.customerid), 'N') AS customer C103 C102 13 NA N 14 NA C106 2 EROM giftorder afo full join customer c 15 NA C101 ΝΔ C101 3 ON c.CUSTOMERID-efo.CUSTOMERID AND location - Bangalore 16 NA C104 Note: Type the solution in dbms. salF sal 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). SELECT DISTINCT gf.orderid, gf.customerid, gf.giftid CUSTOMERID **GIFTID** 1004 C102 G104 FROM giftorder gf, gift g, giftorder gf1 WHERE & GIFTID = of GIFTID AND of CUSTOMERID = of1 CUSTOMERID AND o CATEGORY = 'Home Decor' GROUP BY gf.orderid, gf.customerid, gf.giftid CORDERID W T CUSTOMERID W T GIFTID W HAVING count(ef.customerid) > 1 1004 C102 1001 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

CUSTOMERID CUSTOMERNAME TOTAL BILL C106 Maria 16734 T CUSTOMERID % T CUSTOMERNAME % TOTALBILL %

dhms sol dbms solC III dbms solD dbms_solG 23 dhms soll 1 SELECT gfo customerid , customername, round(sum(price*quantity*(1-discount/100.0))) 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/100.0)))= 5 (SELECT round(max(sum(price*quantity*(1-discount/100.0)))) FROM giftorder gfo , gift g WHERE gfo.GIFTID=g.GIFTID GROUP BY customerID)

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.

F. Display ordered as "ORDERNUM" (column alias) and customered as "CUSTOMER" (column alias) for all the orders as well as for all the customers.

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

ORDERID GIFTID CUSTOMERID 1008 G107

C106

Write the guery using the Correlated Subguery concept only

[3 marks] Note: Type the solution in dbms solH.sal file.

dbms solA dbms solC dbms solD dbms solF 1 SELECT gf.orderid, gf.giftid, gf.customerid FROM giftorder gf WHERE gf.customerid= (SELECT c1.customerid FROM customer c1 WHERE location = Delhi' AND c1.customerid=gf.CUSTOMERID) 5 AND gf.GIFTID-6 (SELECT gl.giftid FROM gift gl WHERE category != 'Showpiece' AND gl.GIFTID=gf.GIFTID) 7 AND gf.ORDERID= 8 (SELECT gf1.orderid FROM giftorder gf1 WHERE shippingcity= 'Chennai' AND gf1.ORDERID=gf.ORDERID CORDERID % F GIFTID % TO CUSTOMERID %