SQL Project Report

[CODED PROJECT]

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QUESTION & ANSWERS

- 1. Write a query to display customer full name with their title (mr/ms), both first name and last name are in upper case with customer email id, customer creation date and display customer's category after applying below categorization rules:
- i. If customer creation date year <2005 then category a
- ii. If customer creation date year >= 2005 and <2011 then category b
- iii. If customer creation date year>= 2011 then category c

	А	D	C	U	Е
1	Customer_Name	Customer_Email	Customer_Cre	Category	
2	Ms.JENNIFERWILSON	jen_w@gmail.com	01-06-1991	Category A	
3	Mr.JACKSONDAVIS	dave_jack@gmail.com	12-06-2001	Category A	
4	Ms.KOMALCHOUDHARY	ch_komal@yahoo.co.IN	26-06-2002	Category A	
5	Mr.WILFREDJEAN	w_jean@gmail.com	12-01-2006	Category B	
6	Ms.ANITAGOSWAMI	agoswami@gmail.com	13-03-2006	Category B	

Table - 1

- 2. Write a query to display the following information for the products, which have not been sold: product_id, product_desc, product_quantity_avail, product_price, inventory values(product_quantity_avail*product_price), new_price after applying discount as per the below criteria. Sort the output concerning the decreasing value of inventory_value.
 - i. If product price > 20,000 then apply 20% discount
 - ii. If product price > 10,000 then apply 15% discount

iii. If product price =< 10,000 then apply 10% discount

PRODUCT_ID	PRODUCT_DESC	PRODUCT	PRODUCT	INVENTOR	NEW_PRICE
99999	Samsung Galaxy Tab 2 P3100	50	19300	965000	16405
99997	Sony Xperia U (Black White)	50	16499	824950	14024.15
99998	Nikon Coolpix L810 Bridge	50	14987	749350	12738.95
99995	LG MS-2049UW Solo Microway	100	4800	480000	4320
99996	Nokia Asha 200 (Graphite)	100	4070	407000	3663

Table -2

3. write a query to display product_class_code, product_class_description, count of product type in each product class, and inventory value (p.product_quantity_avail*p.product_price). Information should be displayed for only those product_class_code that have more than 1,00,000 inventory value. sort the output concerning the decreasing value of inventory_value.

Α	В	C	D	E
PRODUCT	PRODUCT_CLASS_DESC	PRODUCT	INVENTOR	Y_VALUE
3000	Promotion-High Value	4	2564300	
2050	Electronics	4	1665600	
3001	Promotion-Medium Value	3	1261900	
2055	Mobiles	2	1092500	
3002	Promotion-Low Value	3	749250	

Table -3

4. Write a query to display customer_id, full name, customer_email, customer_phone and country of customers who have cancelled all the orders placed by them(use sub-query)

CUSTOME	FULL_NAME	CUSTOMER_EMAIL	CUSTOMER_PHONE	COUNTRY
13	Ravi Srinivasn	r_srinivasn@yahoo.co.in	9945466015	India
15	Jyoti Sinha	jyotisinha@gmail.com	9987795155	India
16	Vijay Bollineni	vbollineni@gmail.com	7829012228	India
20	Keshav Jog	kesjog@yahoo.co.in	7942536789	India
22	Andrew Stanton	andrew_stanton@yahoo.com	9806980253	USA

Table -4

5. Write a query to display shipper name, city to which it is catering, number of customer catered by the shipper in the city and number of consignments delivered to that city for shipper dhl

1	SHIPPER_NAME	CATERING_CITY	CUSTOMERS_CATERED	CONSIGNMENTS_DELIVERED
2	DHL	Abington	1	1
3	DHL	Amherst	1	1
4	DHL	Bangalore	3	5
5	DHL	Birmingham	1	1
6	DHL	Brooklyn	1	1

Table -5

6. Write a query to display customer id, customer full name, total quantity and total value (quantity*price) shipped where mode of payment is cash and customer last name starts with 'g'

1	CUSTOMER_ID	CUSTOMER_FULL_NAME	TOTAL_QUANTITY	TOTAL_VALUE
2	6	Anita Goswami	25	93237
3	24	Brian Grazer	4	4010

Table -6

7. Write a query to display order_id and volume of biggest order (in terms of volume) that can fit in carton id 10

1	ORDER_IDIMAX_VOLUME					
2	10001	472500				
3	10002	8640000				
4	10003	2390625				
5	10004	3000000				
6	10005	3468000				

Table -7

- 8. Write a query to display product_id, product_desc, product_quantity_avail, quantity sold, and show inventory status of products as below as per below condition:
- a. For electronics and computer categories,

- i. If sales till date is zero then show 'no sales in past, give discount to reduce inventory',
- ii. If inventory quantity is less than 10% of quantity sold, show 'low inventory, need to add inventory',
- iii. If inventory quantity is less than 50% of quantity sold, show 'medium inventory, need to add some inventory',
- iv. If inventory quantity is more or equal to 50% of quantity sold, show 'sufficient inventory'

	Α	В	C	D	Е	F	G
1	PRODUCT_DESC	PRODUCT_CLASS_D	PRODUCT	SOLD_QU	AvailableQ	INVENTOR	Y_STATUS
2	Cybershot DWC-W325 Camera	Electronics	5	2	71.4286	Sufficient in	nventory
3	Jocky Speaker Music System HT32	Electronics	19	2	90.4762	Sufficient in	nventory
4	Sky LED 102 CM TV	Electronics	30	5	85.7143	Sufficient in	nventory
5	Sams 192 L4 Single-door Refrigerator	Electronics	15	5	75	Sufficient in	nventory
6	Logtech M244 Optical Mouse	Computer	10	5	66.6667	Sufficient in	nventory

Table - 8a

- b. For mobiles and watches categories,
- i. If sales till date is zero then show 'no sales in past, give discount to reduce inventory',

- ii. If inventory quantity is less than 20% of quantity sold, show 'low inventory, need to add inventory',
- iii. If inventory quantity is less than 60% of quantity sold, show 'medium inventory, need to add some inventory',
- iv. If inventory quantity is more or equal to 60% of quantity sold, show 'sufficient inventory'

1	PRODUCT_DESC	PRODUCT_CL	PRODUCT	SOLD_QU	AvailableQ	INVENTORY_STATUS
2	Samsung Galaxy On6	Mobiles	20	8	71.4286	Sufficient inventory
3	OnePlus 6 Smart Pho	Mobiles	25	4	86.2069	Sufficient inventory
4	Adidas Analog Watch	Watches	10	4	71.4286	Sufficient inventory
5	Titan Karishma Watch	Watches	35	2	94.5946	Sufficient inventory
6	Disney Analog Watch	Watches	10	1	90.9091	Sufficient inventory

Table -8b

- c. Rest of the categories,
- i. If sales till date is zero then show 'no sales in past, give discount to reduce inventory',
- ii. If inventory quantity is less than 30% of quantity sold, show 'low inventory, need to add inventory',
- iii. If inventory quantity is less than 70% of quantity sold, show 'medium inventory, need to add some inventory',

iv. If inventory quantity is more or equal to 70% of quantity sold, show

'sufficient inventory'

1	PRODUCT	PRODUCT_DESC	PRODUCT	PRODUCT	INVENTORY_VALUE	INVENTORY_STATUS
2	99999	Samsung Galaxy Tab 2 P3100	50	19300	965000	No sales in past, give discount to reduce inventory
3	99997	Sony Xperia U (Black White)	50	16499	824950	No sales in past, give discount to reduce inventory
4	99998	Nikon Coolpix L810 Bridge	50	14987	749350	No sales in past, give discount to reduce inventory
5	99995	LG MS-2049UW Solo Microwave	100	4800	480000	No sales in past, give discount to reduce inventory
6	99996	Nokia Asha 200 (Graphite)	100	4070	407000	No sales in past, give discount to reduce inventory

Table -8c

9. Write a query to display product_id, product_desc and total quantity of products which are sold together with product id 201 and are not shipped to city bangalore and new delhi. Display the output in descending order concerning tot_qty.(use sub-query)

	Α	В	C
1	PRODUCT_ID	PRODUCT_DESC	TOT_QTY
2	218	Shell Fingertip Ball Pen	20
3	219	Ruf-n-Tuf Black PU Leather Belt	4
4	201	Sky LED 102 CM TV	3
5	216	External Hard Disk 500 GB	3
6	233	HP ODC School Bag 2.5'	3

Table -9

10. Write a query to display the order_id,customer_id and customer fullname and total quantity of products shipped for order ids which are even and shipped to address where pincode is not starting with "5"

Δ	А	В	C	D
1	ORDER_ID	CUSTOMER_ID	CUSTOMER_FULLNAME	TOTAL_QUANTITY_SHIPPED
2	10008	7	Ashwathi Bhatt	25
3	10022	23	Anna Pinnock	2
4	10024	32	Hans Zimmer	2
5	10028	23	Anna Pinnock	2
6	10030	52	Suchirithaa Ekanayake	2

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