

Business Report – SQL Project

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Problem Statement

Objective

You are hired by a chain of online retail stores “**Reliant retail limited**”. They provide you with “**orders**” database and seek answers to the following queries as the results from these queries will help the company in making data-driven decisions that will impact the overall growth of the online retail store.

Question 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 CREATIONDATE 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

	CUSTOMER_NAME	CUSTOMER_EMAIL	CUSTOMER_CREATION_DATE	CATEGORY
▶	Ms. JENNIFER WILSON	jen_w@gmail.com	1991-06-01	CATEGORY A
	Mr. JACKSON DAVIS	dave_jack@gmail.com	2001-06-12	CATEGORY A
	Ms. KOMAL CHOUDHARY	ch_komal@yahoo.co.IN	2002-06-26	CATEGORY A
	Mr. WILFRED JEAN	w_jean@gmail.com	2006-01-12	CATEGORY B
	Ms. ANITA GOSWAMI	agoswami@gmail.com	2006-03-13	CATEGORY B

Question 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 BELOW CRITERIA. SORT THE OUTPUT WITH RESPECT TO 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_QUANTITY_AVAIL	PRODUCT_PRICE	INVENTORY_VALUE	NEW_PRICE
▶	99999	Samsung Galaxy Tab 2 P3100	50	19300.00	965000.00	16405.000000
	99997	Sony Xperia U (Black White)	50	16499.00	824950.00	14024.150000
	99998	Nikon Coolpix L810 Bridge	50	14987.00	749350.00	12738.950000
	99995	LG MS-2049UW Solo Microwave	100	4800.00	480000.00	4320.000000
	99996	Nokia Asha 200 (Graphite)	100	4070.00	407000.00	3663.000000

Question 3

WRITE A QUERY TO DISPLAY PRODUCT_CLASS_CODE, PRODUCT_CLASS_DESCRIPTION, COUNT OF PRODUCT TYPE IN EACH PRODUCT CLASS, INVENTORY VALUE (P.PRODUCT_QUANTITY_AVAIL*P.PRODUCT_PRICE). INFORMATION SHOULD BE DISPLAYED FOR ONLY THOSE PRODUCT_CLASS_CODE WHICH HAVE MORE THAN 1,00,000 INVENTORY VALUE. SORT THE OUTPUT WITH RESPECT TO DECREASING VALUE OF INVENTORY_VALUE.

	PRODUCT_CLASS_CODE	PRODUCT_CLASS_DESC	PRODUCT_COUNT	INVENTORY_VALUE
▶	3000	Promotion-High Value	4	2564300.00
	2050	Electronics	4	1665600.00
	3001	Promotion-Medium Value	3	1261900.00
	2055	Mobiles	2	1092500.00
	3002	Promotion-Low Value	3	749250.00

Question 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)

	CUSTOMER_ID	CUSTOMER_NAME	CUSTOMER_EMAIL	CUSTOMER_PHONE	COUNTRY
▶	41	Tharman Shanmugaratnam	tharshan@yahoo.co.sg	8572898929	Singapore

Question 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 (9 ROWS)

	SHIPPER_NAME	CITY	CUSTOMER_COUNT	CONSIGNMENT_COUNT
▶	DHL	Abington	1	1
	DHL	Amherst	1	1
	DHL	Bangalore	3	5
	DHL	Birmingham	1	1
	DHL	Brooklyn	1	1
	DHL	Dharmapuri	1	1
	DHL	Hosur	1	1
	DHL	Hyderabad	2	2
	DHL	W. Alibio	1	1

Question 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'

	CUSTOMER_ID	CUSTOMER_NAME	TOTAL_QUANTITY	TOTAL_VALUE
▶	6	Anita Goswami	25	93237.00
	24	Brian Grazer	4	4010.00

Question 7

WRITE A QUERY TO DISPLAY ORDER_ID AND VOLUME OF BIGGEST ORDER (IN TERMS OF VOLUME) THAT CAN FIT IN CARTON ID 10

	ORDER_ID	VOLUME
▶	10001	17880000

Question 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'
- 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'
- 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'

	PRODUCT_ID	PRODUCT_DESC	PRODUCT_CLASS_DESC	PRODUCT_QUANTITY_AVAIL	QTY_SOLD	INVENTORY_STATUS
▶	234	PLUFF Tote Travel Bag 35LTR	Bags	8	4	SUFFICIENT INVENTORY
	233	HP ODC School Bag 2.5'	Bags	35	13	SUFFICIENT INVENTORY
	232	Women Hand Bag	Bags	15	4	SUFFICIENT INVENTORY
	220	Hello Kitty Lunch Bag	Bags	15	5	SUFFICIENT INVENTORY
	231	HP ODC Laptop Bag 15.5	Bags	10	7	SUFFICIENT INVENTORY

Question 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 WITH RESPECT TO TOT_QTY. (USE SUB-QUERY)

	ORDER_ID	PRODUCT_ID	PRODUCT_DESC	TOT_QTY
▶	10014	207	Remote Control Car	2
	10014	216	External Hard Disk 500 GB	2
	10014	202	Sams 192 L4 Single-door Refrigerator	1
	10014	212	Samsung Galaxy On6	1
	10014	214	Harry Potter	1
	10024	216	External Hard Disk 500 GB	1

Question 10

WRITE A QUERY TO DISPLAY THE ORDER_ID, CUSTOMER_ID AND CUSTOMER FULL NAME AND TOTAL QUANTITY OF PRODUCTS SHIPPED FOR ORDER IDS WHICH ARE EVEN AND SHIPPED TO ADDRESS WHERE PINCODE IS NOT STARTING WITH "5"

	ORDER_ID	CUSTOMER_ID	CUSTOMER_NAME	TOT_QTY
▶	10008	7	Ashwathi Bhatt	25
	10022	23	Anna Pinnock	2
	10024	32	Hans Zimmer	2
	10030	52	Suchirithaa Ekanayake	2
	10032	7	Ashwathi Bhatt	7