

# Business Report

## SQL Project

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_FULLNAME	CUSTOMER_FNAME	CUSTOMER_LNAME	CUSTOMER_EMAIL	CUSTOMER_C
MS JenniferWilson	JENNIFER	WILSON	jen_w@gmail.com	1991-06-01
MR JacksonDavis	JACKSON	DAVIS	dave_jack@gmail.com	2001-06-12
MS KomalChoudhary	KOMAL	CHOUDHARY	ch_komal@yahoo.co.IN	2002-06-26
MR WilfredJean	WILFRED	JEAN	w_jean@gmail.com	2006-01-12
MS AnitaGoswami	ANITA	GOSWAMI	agoswami@gmail.com	2006-03-13

- The above table is displaying the Customer Full name followed by Customer First name, Customer Last name, Customer Email Address, Customer Creation date and Customer's Category after applying categorization rules

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_VALUES	NEW_PRICE
201	Sky LED 102 CM TV	30	35000	1050000	700000
99999	Samsung Galaxy Tab 2 P3100	50	19300	965000	289500
99997	Sony Xperia U (Black White)	50	16499	824950	247495
211	OnePlus 6 Smart Phone	25	32500	812500	650000
99998	Nikon Coolpix L810 Bridge	50	14987	749350	224865

- Above table is displaying the information of the Products which have not been sold

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_TYPE	INVENTORY_VALUE
2050	Electronics	1	1050000
3000	Promotion-High Value	1	965000
3000	Promotion-High Value	1	824950
2055	Mobiles	1	812500
3000	Promotion-High Value	1	749350

- Above table is displaying the product class code, product class description, count of product type in each class, Inventory values which have inventory values more than 1,00,000.

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

CUSTOMER_ID	FULL_NAME	CUSTOMER_EMAIL	CUSTOMER_PHONE	COUNTRY
41	TharmanShanmugaratnam	tharshan@yahoo.co.sg	8572898929	Singapore

- Above tables displaying the customer who have cancelled all the orders

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

SHIPPER_NAME	CITY_CATERED	NUMBER_OF_CUSTOMER_CATERED	NUMBER_OF_CONSIGNMENTS_DELIVERED
DHL	Abington	1	1
DHL	Amherst	1	1
DHL	Bangalore	3	5
DHL	Birmingham	1	1
DHL	Brooklyn	1	1

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 FULL NAME	TOTAL QUANTITY	TOTAL VALUE
6	AnitaGoswami	15	420000
6	AnitaGoswami	100	80000
6	AnitaGoswami	25	812500
6	AnitaGoswami	10	16250
6	AnitaGoswami	10	33900

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 OF PRODUCT
10001	17880000

- The Order id of 1001 having Volume of product 17880000 can fit in carton having carton id 10

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_QUANTITY_AVAIL	QUANTITY SOLD	INVENTORY QUANTITY	INVENTORY STATUS
205	Infant Sleepwear Blue	50	3	47	SUFFICIENT
201	Sky LED 102 CM TV	30	6	24	SUFFICIENT
212	Samsung Galaxy On6	20	7	13	SUFFICIENT
244	Foldable Premium Chair	6	2	4	SUFFICIENT
238	Kasyo DJ-2100 Desktop Calculator	10	4	6	SUFFICIENT

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

PRODUCT_ID	PRODUCT_DESC	TOTAL QUANTITY	CITY
201	Sky LED 102 CM TV	1	Mysore
201	Sky LED 102 CM TV	1	Hyderabad
201	Sky LED 102 CM TV	1	Milford

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"

ORDER_ID	CUSTOMER_ID	CUSTOMER FULLNAME	TOTAL QUANTITY	PINCODE
10008	7	Ashwathi Bhatt	25	110013
10022	23	Anna Pinnock	2	11201
10024	32	Hans Zimmer	2	6776
10030	52	Suchirithaa Ekanayake	2	20000
10032	7	Ashwathi Bhatt	7	110013