

# SQL BUSINESS REPORT

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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

Hint: Use case statement, no permanent change in table required. [note: tables to be used -online\_customer table]

The top 5 rows of the above query is as follows:

Result Grid   Filter Rows:   Export:   Wrap Cell Content:				
	CUSTOMER_FULL_NAME	CUSTOMER_EMAIL	CUSTOMER_CREATION_DATE	CUSTOMER_CATEGORY
▶	MS JENNIFER WILSON	jen_w@gmail.com	1991-06-01	A
	MR JACKSON DAVIS	dave_jack@gmail.com	2001-06-12	A
	MS KOMAL CHOUDHARY	ch_komal@yahoo.co.IN	2002-06-26	A
	MR WILFRED JEAN	w_jean@gmail.com	2006-01-12	C
	MS ANITA GOSWAMI	agoswami@gmail.com	2006-03-13	C

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

Hint: use case statement, no permanent change in table required. [note: tables to be used -product, order\_items table]





The top 5 rows of the above query is as follows:

Result Grid   Filter Rows:   Export:   Wrap Cell Content:						
	PRODUCT_ID	PRODUCT_DESC	PRODUCT_QUANTITY_AVAIL	PRODUCT_PRICE	INVENTORY_VALUES	NEW_PRICE
▶	201	Sky LED 102 CM TV	30	35000.00	1050000.00	700000.00
	99999	Samsung Galaxy Tab 2 P3100	50	19300.00	965000.00	289500.00
	99997	Sony Xperia U (Black White)	50	16499.00	824950.00	247485.00
	211	OnePlus 6 Smart Phone	25	32500.00	812500.00	650000.00
	99998	Nikon Coolpix L810 Bridge	50	14987.00	749350.00	224805.00

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.





[note: tables to be used -product, product\_class]

The top 5 rows of the above query is as follows:

Result Grid   Filter Rows: <input type="text"/>   Export:    Wrap Cell Content: 				
	PRODUCT_CLASS_CODE	PRODUCT_CLASS_DESC	COUNT_OF_PRODUCT_TYPE	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





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)  
[note: tables to be used - online\_customer, addresss, order\_header]

The top 5 rows of the above query is as follows:

Result Grid   Filter Rows: <input type="text"/>   Export:    Wrap Cell Content: 					
	CUSTOMER_ID	FULL_NAME	CUSTOMER_EMAIL	CUSTOMER_PHONE	COUNTRY
▶	8	NEETHA CASTELINA	neetha20@gmail.com	8196236362	India
	33	NISEEMA ZIMMER	niseemaz@yahoo.com	8179413840	USA
	51	AHMAD BIN GH AZALI	ahmad_bingh@yahoo.co.my	7348292313	Malaysia
	34	HANS ZIMMER	hans_zimmer@gmail.com	9477272235	USA
	41	THARMAN SHANMUGARATNAM	tharshan@yahoo.co.sg	8572898929	Singapore

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  
[note: tables to be used -shipper, online\_customer, addresss, order\_header]

The top 5 rows of the above query is as follows:

Result Grid   Filter Rows: <input type="text"/>   Export:    Wrap Cell Content:    Fetch rows:				
	SHIPPER_NAME	CITY_CATERED	CUSTOMERS_CATERED	CONSIGNMENTS_DELIVERED
▶	DHL	Kandy	3640	3640
	DHL	Kuala Terengganu	3640	3640
	DHL	Kuala Lumpur	7280	7280
	DHL	Selangor	3640	3640
	DHL	Singapore	18200	18200

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'  
[note: tables to be used -online\_customer, order\_items, product, order\_header]

The top rows of the above query is as follows:

Result Grid				
		Filter Rows:	Export:	
		Wrap Cell Content:		
	CUSTOMER_ID	CUSTOMER_NAME	TOTAL_QUANTITY_SHIPPED	TOTAL_VALUE_SHIPPED
▶	6	Anita Goswami	25	93237.00
	24	Brian Grazer	4	4010.00

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

-- [note: tables to be used -carton, order\_items, product]

The top rows of the above query is as follows:

Result Grid		
		Filter Rows:
	ORDER_ID	BIGGEST_ORDER
▶	10002	2
	10005	5
	10010	1
	10012	3
	10023	1

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:

- For electronics and computer categories,
    - If sales till date is zero then show 'no sales in past, give discount to reduce inventory',
    - If inventory quantity is less than 10% of quantity sold, show 'low inventory, need to add inventory',
    - If inventory quantity is less than 50% of quantity sold, show 'medium inventory, need to add some inventory',
    - If inventory quantity is more or equal to 50% of quantity sold, show 'sufficient inventory'
  - For mobiles and watches categories,
    - If sales till date is zero then show 'no sales in past, give discount to reduce inventory',
    - If inventory quantity is less than 20% of quantity sold, show 'low inventory, need to add inventory',
    - If inventory quantity is less than 60% of quantity sold, show 'medium inventory, need to add some inventory',
    - If inventory quantity is more or equal to 60% of quantity sold, show 'sufficient inventory'
  - Rest of the categories,
    - If sales till date is zero then show 'no sales in past, give discount to reduce inventory',
    - If inventory quantity is less than 30% of quantity sold, show 'low inventory, need to add inventory',
    - If inventory quantity is less than 70% of quantity sold, show 'medium inventory, need to add some inventory',
    - If inventory quantity is more or equal to 70% of quantity sold, show 'sufficient inventory'
- [note: tables to be used -product, product\_class, order\_items] (use sub-query)

The top rows of the above query is as follows:

Result Grid					
Filter Rows:		Export:		Wrap Cell Content:	
PRODUCT_ID	PRODUCT_DESC	PRODUCT_QUANTITY_AVAIL	QUANTITY_SOLD	INVENTORY_STATUS	
205	Infant Sleepwear Blue	50	490	LOW INVENTORY, NEED TO ADD INVENTORY	
201	Sky LED 102 CM TV	30	420	LOW INVENTORY, NEED TO ADD INVENTORY	
212	Samsung Galaxy On6	20	630	LOW INVENTORY, NEED TO ADD INVENTORY	
244	Foldable Premium Chair	6	1120	LOW INVENTORY, NEED TO ADD INVENTORY	
238	Kasyo DJ-2100 Desktop Calculator	10	700	LOW INVENTORY, NEED TO ADD INVENTORY	

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)  
[note: tables to be used -order\_items,product,order\_header, online\_customer, address]

The top rows of the above query is as follows:

Result Grid				
Filter Rows:		Export:		Wrap Cell Conte
PRODUCT_ID	PRODUCT_DESC	CITY	TOT_QTY	
201	Sky LED 102 CM TV	Kandy	6	
205	Infant Sleepwear Blue	Kandy	1	
212	Samsung Galaxy On6	Kandy	2	
244	Foldable Premium Chair	Kandy	1	
201	Sky LED 102 CM TV	Kuala Terengganu	6	

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"  
[note: tables to be used - online\_customer,order\_header, order\_items, address]

The top rows of the above query is as follows:

Result Grid				
Filter Rows:		Export:		Wrap Cell Content:
ORDER_ID	CUSTOMER_ID	CUSTOMER_FULLNAME	TOTAL_QUANTITY_SHIPPED	
10002	2	Jackson Davis	16	
10004	5	Ramya Ravinder	6	
10006	6	Anita Goswami	15	
10008	7	Ashwathi Bhatt	25	
10010	6	Anita Goswami	11	