

SQL and Databases: Project Report

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Business Overview

TOTAL
ORDERS

70

TOTAL
CUSTOMERS

52

TOTAL MALE

28

TOTAL FEMALE

24

ORDERS
SHIPPED

53

ORDERS IN
PROCESS

12

ORDERS
CANCELLED

5

TOTAL
PRODUCTS

14

Customer Metrics

CUSTOMER CATEGORY

- Customers created before the year 2005 are categorized as Type **A**.
- Customers created between 2005 and 2010 (inclusive) are categorized as Type B.
- Customers created in or after the year 2011 are categorized as Type C.

CATEGORY A

3

CATEGORY B

17

CATEGORY C

32

PRODUCT DISCOUNTS

- 1. If the product price is greater than \$20,000, a 20% discount is applied.
- 2. If the product price is greater than \$10,000 but less than or equal to \$20,000, a 15% discount is applied.
- 3. If the product price is less than or equal to \$10,000, a 10% discount is applied.

1	PRODUCT_ID	PRODUCT_DESC	PRODUCT_QUANTITY_AVAIL	PRODUCT_PRICE	INVENTORY_VALUE	NEW_PRICE
2	99999	Samsung Galaxy Tab 2 P3100	50	19300.00	965000.00	16405.0000
3	99997	Sony Xperia U (Black White)	50	16499.00	824950.00	14024.1500
4	99998	Nikon Coolpix L810 Bridge	50	14987.00	749350.00	12738.9500
5	99995	LG MS-2049UW Solo Microwave	100	4800.00	480000.00	4320.0000
6	99996	Nokia Asha 200 (Graphite)	100	4070.00	407000.00	3663.0000
7	99994	HP Deskjet 2050 All-in-One - J510a Printer	100	3749.00	374900.00	3374.1000
8	99991	Dell Targus Synergy 2.0 Backpack	250	999.00	249750.00	899.1000
9	99992	Tom Clancy's Ghost Recon: Future Soldier (PC Game)	250	999.00	249750.00	899.1000
10	99993	Nokia 1280 (Black)	250	999.00	249750.00	899.1000
11	99990	Quanta 4 Port USB Hub	50	500.00	25000.00	450.0000
12	230	Esprit Analog Watch	5	3495.00	17475.00	3145.5000
13	249	All-in-one Board Game	20	450.00	9000.00	405.0000
14	250	Huwi Wi-Fi Receiver 500Mbps	30	287.00	8610.00	258.3000

Product Inventory

PRODUCT_CLASS_CODE	PRODUCT_CLASS_DESC	INVENTORY_VALUE
3000	Promotion-High Value	2564300.00
2050	Electronics	1665600.00
3001	Promotion-Medium Value	1261900.00
2055	Mobiles	1092500.00
3002	Promotion-Low Value	749250.00
2052	Clothes	410000.00
2051	Toys	194100.00
2057	Watches	178820.00

CANCELLED ALL ORDERS

ADDRESS_ID	CUSTOMER_ID	FULL_NAME	CUSTOMER_EMAIL	CUSTOMER_PHONE	COUNTRY
950	41	THARMAN SHANMUGARATNAM	tharshan@yahoo.co.sg	8572898929	Singapore

The query output provides insights into customers who have cancelled orders, allowing businesses to identify patterns and trends associated with order cancellations. By analyzing customer contact information and geographical distribution, businesses can tailor strategies to improve customer satisfaction and retention.

SHIPPER

SHIPPER_NAME	SHIPPER_COUNT
DHL	1
Blue Dart	1
DTDC	1
Flipkart	1
Professional	1
FedEx	1

SHIPPER_NAMME	SHIPPER_CITY_COUNT
DHL	9
BLUE DART	8
DTDC	5
FLIPKART	9
Professional	9
FedEx	4

BIGGEST ORDER

SQL query retrieves data from the `ORDER_ITEMS`, `PRODUCT`, and `CARTON` tables to calculate the total volume of each order. It then filters orders based on whether they can fit within the dimensions of Carton ID 10 and selects the largest order in terms of volume. The output includes the order ID and the volume of the largest order.

ORDER_ID	TOTAL_VOLUME
10014	17524950

PRODUCT DESCRIPTION

PRODUCT ID	PRODUCT DESC	PRODUCT QUANTITY AVAIL	QUANTITY SOLD	INVENTORY STATUS
99999	Samsung Galaxy Tab 2 P3100	50	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99998	Nikon Coolpix L610 Bridge	50	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99997	Sony Xperia U (Black White)	50	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99994	HP Deskjet 2050 All-in-One - J510a Printer	100	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99993	LG MS-2034UW Solo Microwave	100	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99996	Nokia Asha 200 (Graphite)	100	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99991	Dell Targus Synergy 2.0 Backpack	250	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99992	Tom Clancy's Ghost Recon: Future Soldier (PC Game)	250	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99995	Nokia 1260 (Black)	250	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
201	Sky LED 102 CM TV	30	6	SUFFICIENT INVENTORY
202	Sams 192 L4 Single-door Refrigerator	15	6	SUFFICIENT INVENTORY
203	Jocky Speaker Music System HT32	19	3	SUFFICIENT INVENTORY
204	Cricknet Bat for Boys	10	10	SUFFICIENT INVENTORY
206	Infant Sleepwear Blue	50	7	SUFFICIENT INVENTORY
206	Barbie Fab Gown Doll	20	13	SUFFICIENT INVENTORY
207	Remote Control Car	29	11	SUFFICIENT INVENTORY
208	Doll House	12	4	SUFFICIENT INVENTORY
209	Blue Jeans 34	100	12	SUFFICIENT INVENTORY
210	Blossoms Lehenga Choli set	100	10	SUFFICIENT INVENTORY
211	OnePlus 6 Smart Phone	25	5	SUFFICIENT INVENTORY
212	Samsung Galaxy On6	20	9	SUFFICIENT INVENTORY
213	Alchemist	50	21	SUFFICIENT INVENTORY
214	Harry Potter	50	27	SUFFICIENT INVENTORY
216	Logitech M244 Optical Mouse	10	9	SUFFICIENT INVENTORY
216	External Hard Disk 500 GB	10	7	SUFFICIENT INVENTORY
217	Titan Karishma Watch	35	2	SUFFICIENT INVENTORY
218	Shell Fingertip Ball Pen	150	67	SUFFICIENT INVENTORY
219	Ruf-n-Tuf Black PU Leather Belt	50	20	SUFFICIENT INVENTORY
220	Hello Kitty Lunch Bag	10	5	SUFFICIENT INVENTORY
221	Cyber-shot DWC-W325 Camera	5	4	SUFFICIENT INVENTORY
222	KitchAart Siphon Coffee Maker 500 ml	10	3	SUFFICIENT INVENTORY
223	Sams 21L Microwave Oven	5	4	SUFFICIENT INVENTORY
224	Phil's HL 7430 Mixer Grinder 750W	3	3	SUFFICIENT INVENTORY
226	Solmo Non-stick Sandwich Maker 750 W	10	3	SUFFICIENT INVENTORY
226	Solmo Hand Blender Fibre	12	7	SUFFICIENT INVENTORY
227	Phil's Web Collection Juicer JM12	2	7	LOW INVENTORY, NEED TO ADD INVENTORY
228	Artidex Analog Watch	10	7	SUFFICIENT INVENTORY
229	Disney Analog Watch	10	2	SUFFICIENT INVENTORY
230	Esprit Analog Watch	5	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
231	HP ODC Laptop Bag 15.5	10	7	SUFFICIENT INVENTORY
232	Women Hand Bag	15	10	SUFFICIENT INVENTORY
233	HP ODC School Bag 2.5'	35	13	SUFFICIENT INVENTORY
234	FLUFF Tote Travel Bag 35LTR	8	4	SUFFICIENT INVENTORY
236	Solo Exam SB-01 Writing Pad	30	21	SUFFICIENT INVENTORY
238	Kasio DJ-2100 Desktop Calculator	10	10	SUFFICIENT INVENTORY
239	TRANS 2D A4 Size Box File	6	5	SUFFICIENT INVENTORY
240	4M Post It Pad 3.5	8	29	LOW INVENTORY, NEED TO ADD INVENTORY
242	GreenWud CT-NO-PFR Coffee Table	6	7	SUFFICIENT INVENTORY
243	Supreme Fusion Chupboard 02TB	3	5	MEDIUM INVENTORY, NEED TO ADD SOME INVENTORY
244	Foldable Premium Chair	6	16	MEDIUM INVENTORY, NEED TO ADD SOME INVENTORY
245	GreenWud Nova Pedestal Unit	5	3	SUFFICIENT INVENTORY
245	Cindy HMPOC Pencil Box (Multicolor)	10	40	LOW INVENTORY, NEED TO ADD INVENTORY
247	Zenark Color Pencil Art Set	10	3	SUFFICIENT INVENTORY
241	PK Copier A4 75 GSM White Paper Ream	2	18	LOW INVENTORY, NEED TO ADD INVENTORY
246	Exam Warriors	50	3	SUFFICIENT INVENTORY
247	Small Is Beautiful	40	1	SUFFICIENT INVENTORY
248	To Kill a Mocking Bird	35	1	SUFFICIENT INVENTORY
249	All-in-one Board Game	20	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
250	Huwei Wi-Fi Receiver 500Mbps	30	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY
99990	Quanta 4 Port USB Hub	50	0	NO SALES IN PAST, GIVE DISCOUNT TO REDUCE INVENTORY

TOTAL QUANTITY OF PRODUCTS WHICH ARE SOLD TOGETHER WITH PRODUCT ID 201
AND ARE NOT SHIPPED TO CITY BANGALORE AND NEW DELHI

PRODUCT_ID	PRODUCT_DESC	TOT_QTY
218	Shell Fingertip Ball Pen	20
219	Ruf-n-Tuf Black PU Leather Belt	4
201	Sky LED 102 CM TV	3
216	External Hard Disk 500 GB	3
233	HP ODC School Bag 2.5'	3
207	Remote Control Car	2
204	Cricket Set for Boys	2
206	Barbie Fab Gown Doll	2
243	Supreme Fusion Cupboard 02TB	2
202	Sams 192 L4 Single-door Refrigerator	1
212	Samsung Galaxy On6	1
214	Harry Potter	1
203	Jocky Speaker Music System HT32	1
221	Cybershot DWC-W325 Camera	1

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
10008	7	Ashwathi Bhatt	25
10022	23	Anna Pinnock	2
10024	32	Hans Zimmer	2
10028	23	Anna Pinnock	2
10030	52	Suchirithaa Ekanayake	2
10032	7	Ashwathi Bhatt	7
10034	19	Bharti Subhash	2
10036	24	Brian Grazer	4
10040	3	Komal Choudhary	2
10042	26	Stephen E. Rivkin	2
10044	39	Liz Mullane	3
10046	3	Komal Choudhary	1
10048	33	Niseema Zimmer	1
10052	17	Prasad Shetty	1
10054	19	Bharti Subhash	3
10058	28	Sayyed Faraj	2
10064	35	Thomas Newman	3
10068	51	Ahmad Bin Gh Azali	3
10070	10	Bidhan C.Roy	3

Insights and Recommendations

Businesses can create data-driven plans to optimise inventory management, boost customer interaction, and increase overall operational efficiency by utilising the insights gleaned from the analysis of SQL queries. Businesses can boost profitability, sustain competitive advantage in the market, and promote sustainable growth by putting the results into practice through focused activities. It is imperative to conduct routine monitoring and evaluation of key performance indicators to ascertain the efficacy of adopted strategies and foster continuous improvement throughout all facets of corporate operations.