

Online Shopping

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PURPOSE

- My purpose is to use five databases to analyze the shopping details for customers of provinces.

customer.csv

market.csv

order.csv

shipping.csv

product.csv

➤ These databases are founded in Kaggle

<https://www.kaggle.com/tanyadayanand/online-shopping>

Question

1. What is the famous product in the database 'product'?
2. Check Ontario and Consumer in the database 'customer'.
3. Where do customers use online shopping a lot?
4. Don't check 'Not Specified' and 'Critical, or delete them.
5. What ship-mode do customers use a lot?
(Shipping_cost below 40 dollar)
6. What product did customers order a lot?

1. What is the famous product in the database 'product'?

```
SELECT Product_Category, COUNT(Product_Category)  
AS "Number of Products"  
FROM Shopping.product  
GROUP BY Product_Category;
```


Product_Category	Number of Produ...
OFFICE SUPPLIES	9
TECHNOLOGY	4
FURNITURE	4

2. Check Ontario and Consumer in the database 'customer'.

```
SELECT * FROM Shopping.customer
WHERE Province = 'ONTARIO'
AND Customer_Segment = 'CONSUMER'
```

Customer_Name	Province	Region	Customer_Segment	Cust_id
JOSEPH AIRDO	ONTARIO	ONTARIO	CONSUMER	Cust_417
KEN LONSDALE	ONTARIO	ONTARIO	CONSUMER	Cust_418
KATRINA BAVINGER	ONTARIO	ONTARIO	CONSUMER	Cust_420
ROB BEEGHLY	ONTARIO	ONTARIO	CONSUMER	Cust_432
ANNIE THURMAN	ONTARIO	ONTARIO	CONSUMER	Cust_434
BOBBY ODEGARD	ONTARIO	ONTARIO	CONSUMER	Cust_446
RICK WILSON	ONTARIO	ONTARIO	CONSUMER	Cust_460
PETE ARMSTRONG	ONTARIO	ONTARIO	CONSUMER	Cust_468
JONI BLUMSTEIN	ONTARIO	ONTARIO	CONSUMER	Cust_471
NAT GILPIN	ONTARIO	ONTARIO	CONSUMER	Cust_472
BECKY CASTELL	ONTARIO	ONTARIO	CONSUMER	Cust_474
LISA DECHERNEY	ONTARIO	ONTARIO	CONSUMER	Cust_484
TAMARA CHAND	ONTARIO	ONTARIO	CONSUMER	Cust_490
ED LUDWIG	ONTARIO	ONTARIO	CONSUMER	Cust_496
EILEEN KIEFER	ONTARIO	ONTARIO	CONSUMER	Cust_500

3. Where do customers use online shopping a lot?



```
SELECT Province,COUNT(Province)
AS "Number of Provinces"
FROM Shopping.customer
GROUP BY Province;
```

NUNAVUT	40
NORTHWEST TERRITORIES	76
PRINCE EDWARD ISLAND	45
MANITOBA	172
BRITISH COLUMBIA	239
NOVA SCOTIA	187
ONTARIO	337
NEWFOUNDLAND	58
QUEBEC	210
NEW BRUNSWICK	54
SASKACHEWAN	141
YUKON	130
ALBERTA	143

4. Don't check 'Not Specified' and 'Critical, or delete them

```
SELECT Order_ID, Order_Date, Order_Priority FROM
Shopping.order
WHERE NOT Order_Priority = 'NOT SPECIFIED'
AND NOT Order_Priority = 'CRITICAL'
ORDER BY Order_ID DESC;

DELETE FROM Shopping.order
WHERE Order_Priority = 'NOT SPECIFIED'
AND Order_Priority = 'CRITICAL';
```

	Order_ID	Order_Date	Order_Priority
▶	59973	15-11-2011	LOW
	59969	11-01-2012	HIGH
	59942	08-02-2009	MEDIUM
	59939	01-09-2010	MEDIUM
	59937	28-12-2009	HIGH
	59909	05-08-2012	LOW
	59906	20-05-2010	HIGH
	59905	14-04-2012	HIGH
	59878	28-05-2012	HIGH
	59845	22-12-2009	LOW
	59812	22-06-2011	MEDIUM
	59783	19-08-2010	LOW
	59779	17-05-2009	LOW
	59777	12-12-2010	HIGH
	59776	09-03-2009	LOW
	59750	09-07-2010	LOW
	59686	08-03-2011	LOW
	59684	29-12-2010	MEDIUM
	59652	27-01-2011	MEDIUM
	59589	11-04-2012	MEDIUM
	59588	07-08-2010	LOW

What ship-mode do customers use a lot? (Shipping cost below 40 dollar) ?

```
SELECT Ship_id, Ship_mode
FROM Shopping.shipping
WHERE EXISTS (SELECT Ship_id
FROM Shopping.market
WHERE Shopping.market.Ship_id =
Shopping.shipping.Ship_id
AND Shipping_Cost<40);
```

Ship_id	Ship_mode
SHP_3	REGULAR AIR
SHP_4	REGULAR AIR
SHP_5	REGULAR AIR
SHP_6	REGULAR AIR
SHP_11	REGULAR AIR
SHP_12	REGULAR AIR
SHP_13	REGULAR AIR
SHP_15	REGULAR AIR
SHP_20	EXPRESS AIR
SHP_21	REGULAR AIR
SHP_22	REGULAR AIR
SHP_23	REGULAR AIR
SHP_25	REGULAR AIR
SHP_27	REGULAR AIR
SHP_31	REGULAR AIR
SHP_38	REGULAR AIR
SHP_41	REGULAR AIR
SHP_43	REGULAR AIR
SHP_44	REGULAR AIR
SHP_45	EXPRESS AIR
SHP_46	REGULAR AIR

What products are customers ordering a lot?

```
SELECT DISTINCT (Shopping.market.Prod_id),  
Shopping.product.Product_Sub_Category  
FROM Shopping.market  
INNER JOIN Shopping.product  
ON Shopping.product.Prod_id =  
Shopping.market.Prod_id;
```

Prod_16	SCISSORS, RULERS AND TRIMMERS	
Prod_13	PENS & ART SUPPLIES	
Prod_4	TELEPHONES AND COMMUNICATION	
Prod_6	PAPER	
Prod_17	OFFICE MACHINES	
Prod_12	LABELS	
Prod_2	APPLIANCES	
Prod_11	TABLES	
Prod_10	BOOKCASES	
Prod_5	OFFICE FURNISHINGS	
Prod_9	ENVELOPES	
Prod_15	CHAIRS & CHAIRMATS	
Prod_7	RUBBER BANDS	
Prod_3	BINDERS AND BINDER ACCESSORIES	
Prod_1	STORAGE & ORGANIZATION	
Prod_8	COMPUTER PERIPHERALS	
Prod_14	COPIERS AND FAX	

* Create a table for userID

```
CREATE TABLE `Shopping`.`userID` (  
  `ID` INT NOT NULL,  
  `First_Name` VARCHAR(45) NULL,  
  `Middle_Name` VARCHAR(45) NULL,  
  `Last_Name` VARCHAR(45) NULL,  
  `Mobile` VARCHAR(15) NULL,  
  `Email` VARCHAR(15) NULL,  
  `Password` VARCHAR(45) NOT NULL,  
  PRIMARY KEY (`ID`));
```

Summary

- Office supplies are the famous products of online shopping.
- Many people use online shopping a lot from Ontario.
- Customers use regular air to order products.
- These products are popular with customers.

Prod_16	SCISSORS, RULERS AND TRIMMERS	
Prod_13	PENS & ART SUPPLIES	
Prod_4	TELEPHONES AND COMMUNICATION	
Prod_6	PAPER	
Prod_17	OFFICE MACHINES	
Prod_12	LABELS	
Prod_2	APPLIANCES	
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Prod_8	COMPUTER PERIPHERALS	
Prod_14	COPIERS AND FAX	

Please click on the links below

Medium : <https://medium.com/@annsyj94>

LinkedIn : <https://www.linkedin.com/in/kelly94/>

GitHub: <https://github.com/annsyj94?tab=repositories>

Thank You