



# nello.

My name is Muhammad Nafis Sunaryo

Nice to meet you



### Muhammad Nafis Sunaryo

#### Data Analyst | Business Analyst

I am a recent graduate with a degree in Statistics. Have enthusiasm and strong interest in data analysis. with analytical skills, problem solving ability, fast learning ability, and dedication

I learned a lot about data while in college and I am very ready to help your company with data, creating dashboards, helping in making decisions, and ensuring teams work well together

### About Me



After graduation, I have also successfully completed several projects, mastered the use of various data analysis tools, and coordinated various project elements smoothly. Currently, I am looking for new opportunities to develop skills and experience in the field of data analysis. I am ready to face bigger challenges and contribute to the world of data analysis.



Develop skills and become a true inspiration for data analyst

### Education

#### 2019 - 2023

Brawijaya University

#### **Bachelor of Statistics**

Brawijaya University is a state campus located in Malang City and based on the world university website ranking agency 4ICU, in 2023 UB will be ranked 5th in Indonesia and 756th in the world.



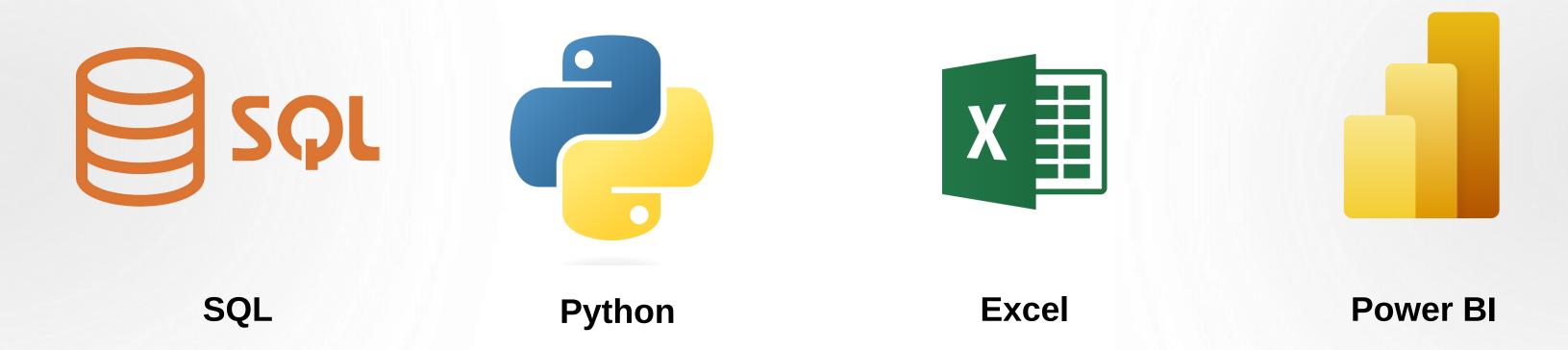
#### 2023

#### Coding Studio Online Bootcamp

Coding Studio is an online-based academy that prepares digital talents throughout Indonesia for technology experts who are currently most in demand by companies



## Expertise Skill



This project was assisted using SQL Workbench, Python, Excel, and Power BI tools. With different case studies but the aim is to master the four data analysis tools

#### PROJECT 01

# SQL database.

#### Create tables and Insert data

#### Syntax Create Table

```
47 • ⊖ CREATE TABLE TrReview(
                                                                                       Limit to 1000 rows
                                                                                                                                                                      IDReview INT AUTO_INCREMENT,
                                                                                      CREATE TABLE MsProduct(
       CREATE DATABASE shop;
                                                                                                                                                         49
                                                                                                                                                                      IDProduct INT,
                                                                               24
                                                                                         IDProduct INT AUTO INCREMENT,
       USE shop;
                                                                                         IDShop VARCHAR(6),
                                                                                                                                                         50
                                                                                                                                                                      Comment VARCHAR(50),
                                                                               26
                                                                                         Name VARCHAR(50) NOT NULL,
                                                                                                                                                         51
                                                                                                                                                                      Star INT NOT NULL,
       -- DROP DATABASE shop;
                                                                                         Stock INT NOT NULL,
                                                                                                                                                         52
                                                                                                                                                                      CONSTRAINT checkStar CHECK (Star >= 1 and Star <= 5), -- STAR BETWEEN 1 AND 5
                                                                                         Price INT NOT NULL,
6 • ⊖ CREATE TABLE TrCustomer(
                                                                                                                                                         53
                                                                                         PRIMARY KEY(IDProduct),
                                                                                                                                                                      PRIMARY KEY(IDReview),
           IDCustomer INT AUTO INCREMENT,
                                                                                         FOREIGN KEY(IDShop) REFERENCES TrShop(IDShop)
                                                                                                                                                         54
                                                                                                                                                                      FOREIGN KEY(IDProduct) REFERENCES MsProduct(IDProduct)
           Name VARCHAR(50) NOT NULL,
                                                                               31
                                                                                                                                                         55
                                                                               32
           PhoneNumber VARCHAR(20),
                                                                                                                                                         56
                                                                               33 •
                                                                                      CREATE TABLE TrTransaction(
10
           Email VARCHAR(50),
                                                                                         IDTransaction VARCHAR(5),

    ○ CREATE TABLE TrCart(
11
           PRIMARY KEY(IDCustomer)
                                                                                          IDProduct INT.
12
                                                                                                                                                         58
                                                                                                                                                                      IDCart INT AUTO INCREMENT,
       );
13
                                                                                                                                                         59
                                                                                                                                                                      IDProduct INT,
                                                                                         TransactionDate DATETIME,
14 •

  ○ CREATE TABLE TrShop(
                                                                                                                                                         60
                                                                                         Qty INT NOT NULL,
                                                                                                                                                                      IDCustomer INT,
15
           IDShop VARCHAR(6),
                                                                                         TotalPrice BIGINT NOT NULL,
                                                                                                                                                         61
                                                                                                                                                                      PRIMARY KEY(IDCart),
16
           Name VARCHAR(50) NOT NULL,
                                                                                         Done BIT NOT NULL,
                                                                                                                                                         62
                                                                                                                                                                      FOREIGN KEY(IDProduct) REFERENCES MsProduct(IDProduct),
17
           Owner VARCHAR(50) NOT NULL,
                                                                                         PaymentMethod VARCHAR(50) NOT NULL,
                                                                                                                                                         63
                                                                                                                                                                      FOREIGN KEY(IDCustomer) REFERENCES TrCustomer(IDCustomer)
18
           isOfficial INT NOT NULL, -- BIT
                                                                               42
                                                                                         PRIMARY KEY(IDTransaction),
                                                                                         FOREIGN KEY(IDProduct) REFERENCES MsProduct(IDProduct),
                                                                                                                                                         64
19
           Address VARCHAR(50),
                                                                               44
                                                                                         FOREIGN KEY(IDCustomer) REFERENCES TrCustomer(IDCustomer)
20
           PRIMARY KEY(IDShop)
                                                                                                                                                         65
                                                                               45
21
```

#### Syntax Insert Data

```
INSERT INTO TrTransaction(IDTransaction, IDProduct, IDCustomer, Transaction)
                                                                                                  INSERT INTO MsProduct(IDShop, Name, Stock, Price)
INSERT INTO trCustomer(Name, PhoneNumber, Email)
                                                                                                  VALUES -- DONE
                                                                                                                                                                            ('TR001',1,1,'2018-03-12 12:23:01',2,98000,0,'Credit Card'),
                                                                                                                                                                            ('TR002',2,2,'2018-05-01 07:21:01',1,39000,1,'Debit'),
 ('Christiana Willis Cockle','202-555-0106','christiana@email.com'),
                                                                                                  ('SH145N', 'Fidget Spinner', 110, 49000),
                                                                                                                                                                            ('TR003',3,3,'2018-02-23 20:45:56',1,12000,1,'Credit Card'),
                                                                                                                                                                   161
('James Butterscotch','202-555-0174','james@email.com'),
                                                                                                  ('SH145N', 'Fidget Box', 78, 39000),
                                                                                                                                                                            ('TR004',4,4,'2018-09-15 17:38:59',1,56000,1,'Credit Card'),
('Suzanne Jones Greenway', '202-555-0102', 'suzanne@email.com'),
                                                                                                  ('SH145N', 'Slime', 40, 12000),
('Morwenna Doop','202-555-0170','morwenna@email.com'),
                                                                                                                                                                            ('TR005',5,5,'2018-08-05 10:11:01',2,105000,0,'Debit'),
                                                                                                  ('SH145N', 'Lego', 103, 56000),
                                                                                                                                                                   164
('Beth Giantbulb Barlow', '202-555-0140', 'beth@email.com'),
                                                                                                  ('SH145N', 'Gundam Master Grade', 5, 405000),
                                                                                                                                                                            ('TR006',6,1,'2018-01-23 12:23:31',1,5000000,0,'Debit'),
('Morwenna Doop','202-555-0160','morwenna@email.com'),
                                                                                                                                                                            ('TR007',7,2,'2018-02-10 17:38:41',2,2000000,1,'Debit'),
('Jeff Ferguson Platt', '202-555-0120', 'jeff@email.com'),
                                                                                                  ('SH223Y', 'Computer', 5, 5000000),
                                                                                                                                                                            ('TR008',8,3,'2018-03-22 20:23:17',3,1020000,0,'Debit'),
('Jenna Thornhill','202-555-01900','jenna@email.com'),
                                                                                                  ('SH223Y', 'VGA', 26, 1000000),
                                                                                                                                                                            ('TR009',9,4,'2018-08-27 01:38:12',1,760000,1,'Credit Card'),
('Charlotte Donaldson Hemingway', '202-555-0270', 'charlotte@email.com'),
                                                                                                  ('SH223Y', 'Mouse', 98, 340000),
                                                                                                                                                                            ('TR010',10,5,'2018-10-01 10:01:51',2,24000,0,'Debit'),
('Steven Smith','202-555-0820','steven@email.com');
                                                                                                  ('SH223Y', 'Keyboard', 63, 760000),
                                                                                                                                                                   170
                                                                                                  ('SH223Y', 'Earphone', 120, 120000),
                                                                                                                                                                   171
                                                                                                                                                                            ('TR011',31,6,'2018-12-01 18:43:56',2,1080000,1,'Credit Card'),
INSERT INTO trShop(IDShop, Name, Owner, isOfficial, Address)
                                                                                                  -- SHOP 3
                                                                                                                                                                            ('TR012',32,7,'2018-11-25 07:26:41',5,2250000,0,'Debit'),
                                                                                                  ('SH359Y', 'Soap', 50, 5000),
                                                                                                                                                                            ('TR013',33,8,'2018-10-17 23:25:26',2,70000,0,'Debit'),
('SH145N', 'Fortune Shop', 'Clarke Platt', 0, '204 Peed Smith Rd, Hamilton, GA, 31811')
                                                                                                  ('SH359Y', 'Shampoo', 45, 21000),
                                                                                                                                                                            ('TR014',34,9,'2018-09-12 21:37:59',1,510000,1,'Credit Card'),
('SH223Y','Jaya Shop','Fred Wilson',1,'4932 Reuter St, Dearborn, MI, 48126'),
                                                                                                  ('SH359Y', 'Tooth Brush', 81, 140000),
                                                                                                                                                                            ('TR015',35,6,'2018-08-08 14:31:39',3,30000,0,'Debit'),
('SH359Y', 'Surya Shop', 'Naomi Rockatansky',1, '4971 Good Luck Rd, Aynor, SC, 29511')
                                                                                                  ('SH359Y', 'Tooth Paste', 20, 21000),
                                                                                                                                                                   176
('SH483N', 'Sinar Shop', 'Jenna Vader', 0, '5401 A Tech Cir, Moorpark, CA, 93021'),
                                                                                                  ('SH359Y', 'Hair Conditioner', 30, 58000),
                                                                                                                                                                            ('TR016',36,6,'2018-07-24 15:24:21',2,680000,1,'Credit Card'),
('SH592Y', 'Terang Shop', 'Mary Parkes',1,'7120 Crestwood Ave, Jenison, MI, 49428'),
                                                                                                                                                                            ('TR017',37,7,'2018-05-12 18:11:51',3,555000,1,'Debit'),
('SH673N', 'Parlor Shop', 'Sophia Willis',0,'185 Red Maple Dr, Hampton, GA, 30228'),
                                                                                                  ('SH483N', 'Guitar', 70, 550000),
                                                                                                                                                                           ('TR018',38,8,'2018-03-11 11:35:26',4,1520000,1,'Credit Card'),
('SH778N', 'Inn Shop', 'Suzanne Ball',0, '106 Southwind Dr, Pleasant Hill, CA, 94523')
                                                                                                  ('SH483N', 'Violin', 30, 450000),
                                                                                                                                                                           ('TR019',39,9,'2018-01-29 19:37:19',2,120000,1,'Debit').
                                                                                                ('SH483N', 'Piano', 8, 1250000),
('SH832N','Deli Shop','Alex Barker',0,'2337 School House Rd. Fairmont, WV. 26554').
```

```
INSERT INTO TrReview(IDProduct, Comment, Star)
        VALUES
185
        -- DONE
        (1, 'Good',5),
        (1,'Nice',4),
        (2,'I dont like it',2),
        (2, 'Best product',5),
        (3,'Not really..',3),
191
        (3, 'Never buy this item again',1),
        (4, 'Good job',5),
        (4, 'Awesome',5),
        (5, 'Terrible', 2),
        (5,'OK',3),
        (6, 'Good',5),
        (6,'Nice',4),
        (7, 'Best product',5),
        (7,'Not really..',3),
        (8, 'Never buy this item again',1),
        (8, 'Good job',5),
        (9, 'Awesome',5),
        (9, 'Terrible',2),
        (10,'OK',3),
205
        (10, 'Nice',4),
        -- DONE
```

#### Displays the data that has been entered

#### Syntax

trShop 10

trCustomer 9

MsProduct 11 trTransaction 12 × TrReview 13

TrCart 14

trCustomer 9

trShop 10

```
SELECT * FROM trCustomer; SELECT * FROM trShop; SELECT * FROM MsProduct;
 405
               SELECT * FROM trTransaction; SELECT * FROM TrReview; SELECT * FROM TrCart;
Query Result
                                                                                                                                                                                                                                                     Edit: 🚄 🖶 🖶 Export/Import: 📺 🐻 🛚 W
                                                                                                                                                                                                                         Filter Rows:
                                                                                                                                                 | Edit: 🚄 🖶 🖶 | Export/Import: 识 👸 | Wrap Cell (
Result Grid
                  Filter Rows:
                                                              Export/Import:
                                                                                                 Result Grid
                                                                                                                 Filter Rows:
                                                    Edit: 🍊
                                                                                                                                                                                                         IDProduct
                                                                                                                                                                                                                    IDShop
                                                                                                                                                                                                                                                   Stock Price
                                                                                                                                              isOfficial
                                                                                                     IDShop
                                                                                                                            Owner
     IDCustomer
                                                 PhoneNumber
                                                                                                                                                                                                                    SH145N
                                                                                                                                                                                                                             Fidget Spinner
                                                                                                                                                                                                                                                   110
                                                                                                                                                                                                                                                          49000
                                                                                                    SH102Y
                                                                                                             Fushion Shop
                                                                                                                           Alex Fish
                                                                                                                                                       89068 Fir Butte Rd, Eugene, OR, 97402
                  Christiana Willis Cockle
                                                 202-555-0106
                                                                 christiana@email.com
                                                                                                                                                                                                                             Fidget Box
                                                                                                                                                                                                                                                          39000
                                                                                                                                                                                                                   SH145N
                                                                                                             Fortune Shop
                                                                                                                           Clarke Platt
                                                                                                                                                       204 Peed Smith Rd, Hamilton, GA, 31811
                                                                                                    SH145N
                  James Butterscotch
                                                 202-555-0174
                                                                 james@email.com
                                                                                                                                                                                                                                                          12000
                                                                                                                                                                                                                    SH145N
                                                                                                                           Fred Wilson
                                                                                                                                                       4932 Reuter St, Dearborn, MI, 48126
                                                                                                    SH223Y
                                                                                                             Jaya Shop
                  Suzanne Jones Greenway
                                                 202-555-0102
                                                                 suzanne@email.com
                                                                                                                                                                                                                                                          56000
                                                                                                                                                                                                                    SH145N
                                                                                                                                                                                                                                                  103
                                                                                                                                                       4971 Good Luck Rd, Aynor, SC, 29511
                                                                                                             Surya Shop
                                                                                                                           Naomi Rockatansky
                                                                                                    SH359Y
                  Morwenna Doop
                                                202-555-0170
                                                                 morwenna@email.com
                                                                                                                                                                                                                    SH145N
                                                                                                                                                                                                                             Gundam Master Grade
                                                                                                                                                                                                                                                          405000
                                                                                                    SH483N
                                                                                                              Sinar Shop
                                                                                                                           Jenna Vader
                                                                                                                                                       5401 A Tech Cir, Moorpark, CA, 93021
                 Beth Giantbulb Barlow
                                                 202-555-0140
                                                                 beth@email.com
                                                                                                                                                                                                                                                          5000000
                                                                                                                                                                                                                   SH223Y
                                                                                                                                                                                                                             Computer
                                                                                                             Terang Shop
                                                                                                                           Mary Parkes
                                                                                                                                                       7120 Crestwood Ave, Jenison, MI, 49428
                  Morwenna Doop
                                                202-555-0160
                                                                 morwenna@email.com
                                                                                                                                                                                                                                                          1000000
                                                                                                                                                                                                                   SH223Y
                                                                                                     SH673N
                                                                                                             Parlor Shop
                                                                                                                           Sophia Willis
                                                                                                                                                       185 Red Maple Dr., Hampton, GA, 30228
                  Jeff Ferguson Platt
                                                 202-555-0120
                                                                 jeff@email.com
                                                                                                                                                                                                                                                          340000
                                                                                                                                                                                                                   SH223Y
                                                                                                             Inn Shop
                                                                                                                           Suzanne Ball
                                                                                                                                                       106 Southwind Dr., Pleasant Hill, CA, 94523
                  Jenna Thornhill
                                                202-555-01900
                                                                 jenna@email.com
                                                                                                                                                                                                                    SH223Y
                                                                                                                                                                                                                             Keyboard
                                                                                                                                                                                                                                                          760000
                                                                                                    SH832N
                                                                                                             Deli Shop
                                                                                                                           Alex Barker
                                                                                                                                                       2337 School House Rd, Fairmont, WV, 26554
                  Charlotte Donaldson Hemingway
                                                202-555-0270
                                                                 charlotte@email.com
                                                                                                                                                                                                                   SH223Y
                                                                                                                                                                                                                             Earphone
                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                          120000
                                                                                                                                                       5544 East Torino, Port Saint Lucie, FL, 34986
                                                                                                             Buzz Shop
                                                                                                                           Sandie Doop
                                                                                                    SH912Y
    10
                  Steven Smith
                                                 202-555-0820
                                                                steven@email.com
                                                                                                                                                                                                                                                  50
                                                                                                                                                                                                                                                          5000
                                                                                                                                                                                                                    SH359Y
                                                                                                                                                                                                                             Soap
                                                                                                                                             NULL
                                                                                                                                                                                                                                                         21000
                                                                                                                                                                                                                   SH359Y
                                                                                                                                                                                                                             Shampoo
                                                                                                                                                                                                        13
                                                                                                                                                                                                                             Tooth Brush
                                                                                                                                                                                                                                                          140000
                                                                                                                                                                                                     trCustomer 9
                                                                                                                                                                                                                                  MsProduct 11 ×
                                                                                                                                                                                                                                                   trTransaction 12
                                                                                                                                                                                                                                                                      TrReview 13
                                                                                                                                                                                                                                                                                     TrCart 14
                                                                                                               trShop 10 × MsProduct 11
                                                                                                                                              trTransaction 12
                                                                                                                                                                 TrReview 13
trCustomer 9 × trShop 10
                                                                                     TrCart 14
                               MsProduct 11
                                                 trTransaction 12
                                                                     TrReview 13
                                                                                                                                                                                                                                                   Edit: 🚄 🖶 🖶 Export/Import: 🖳 👸 Wra
                                                                                                                                                                                                   Result Grid
                                                                                                                                                                                                                   Filter Rows:
                                                                                                                                                  | Edit: 🍊 🖶 🖶 | Export/Import: 🗓 🐻 | V
                                                                                                     Result Grid
                                                                                                                    Filter Rows:
   IDTransaction
               IDProduct IDCustomer
                                      TransactionDate
                                                          Qty
                                                               TotalPrice
                                                                          Done
                                                                                 PaymentMethod
                                                                                                                                                                                                       IDCart
                                                                                                                                                                                                               IDProduct
                                                                                                                                                                                                                         IDCustomer
                                                                                                                   IDProduct
                                                                                                         IDReview
                                                                                                                             Comment
                                                                                                                                                    Star
  TR001
                                      2018-03-12 12:23:01
                                                                98000
                                                                                 Credit Card
                                                                                 Debit
                                                                                                                             Good
  TR002
                                      2018-05-01 07:21:01
                                                               39000
                                                                                                                            Nice
                                                                12000
                                                                                 Credit Card
  TR003
                                      2018-02-23 20:45:56
                                                                                                                            I dont like it
                                                                                                                                                   2
  TR004
                                      2018-09-15 17:38:59
                                                               56000
                                                                                 Credit Card
                                                                                                                            Best product
                                                                                                                                                   5
  TR005
                                      2018-08-05 10:11:01
                                                                105000
                                                                                                                            Not really...
  TR006
                                      2018-01-23 12:23:31
                                                                                 Debit
                                                               5000000
                                                                                                                            Never buy this item again
                                                                                                                                                                                                              12
  TR007
                                      2018-02-10 17:38:41 2
                                                                                 Debit
                                                               2000000
                                                                                                                            Good job
                                                                                                                                                                                                              33
  TR008
                                                                                 Debit
                                      2018-03-22 20:23:17
                                                                1020000
                                                                                                                                                   5
                                                                                                                             Awesome
  TR009
                                      2018-08-27 01:38:12
                                                                760000
                                                                                 Credit Card
                                                                                                                            Terrible
                                                                                                                                                   2
                                                                                                                                                                                                              25
                                      2018-10-01 10:01:51
                                                                                 Debit
                                                               24000
                                                                                                                            OK
                                                                                                                                                   3
                                                                                                                                                                                                      10
                                                                                                                                                                                                              17
  TR011
               31
                                      2018-12-01 18:43:56 2
                                                                1080000
                                                                                 Credit Card
                                                                                                        11
                                                                                                                             Good
                                                                                                                                                                                                      11
                                                                                                                                                                                                              21
                                                                                                                                                                                                                         2
               32
  TR012
                                      2018-11-25 07:26:41 5
                                                               2250000
                                                                                 Debit
                                                                                                        12
                                                                                                                            Nice
                                                                                                                                                                                                      12
                                                                                                                                                                                                              33
               33
  TR013
                                      2018-10-17 23:25:26 2
                                                                70000
                                                                                 Debit
                                                                                                        13
                                                                                                                             Best product
                                                                                                                                                   5
                                                                                                                                                                                                      13
                                                                                                                                                                                                              45
                                                                                                                                                                                                                         2
```

trTransaction 12

TrReview 13 × TrCart 14

trShop 10

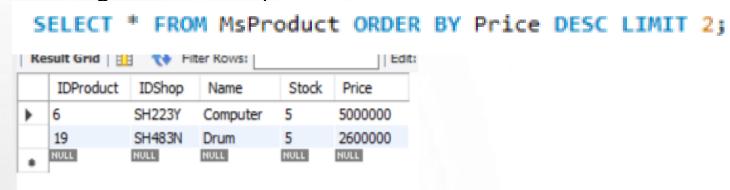
MsProduct 11

trTransaction 12

TrReview 13 TrCart 14 ×

#### Using queries to display data

1. Showing the 2 most expensive items.



2. Show official shop details sorted by the name of the largest shop owner [A - Z]

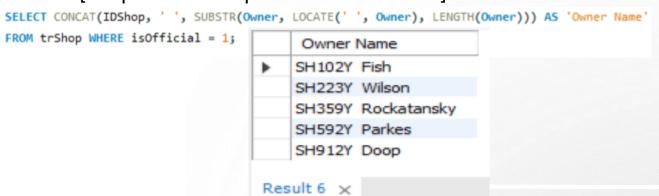


3. Create a view named 'vw\_CreditCardDoneTransaction', displaying details of transactions that have been completed and used a Credit Card

```
CREATE VIEW vw CreditCardDoneTransaction
AS.
SELECT * FROM trTransaction WHERE PaymentMethod = 'Credit Card' AND Done = 1;
SELECT * FROM vw CreditCardDoneTransaction;
```

	IDTransaction	IDProduct	IDCustomer	TransactionDate	Qty	TotalPrice	Done	PaymentMethod
<b>)</b>	TR003	3	3	2018-02-23 20:45:56	1	12000	1	Credit Card
	TR004	4	4	2018-09-15 17:38:59	1	56000	1	Credit Card
	TR009	9	4	2018-08-27 01:38:12	1	760000	1	Credit Card
	TR011	31	6	2018-12-01 18:43:56	2	1080000	1	Credit Card
	TR014	34	9	2018-09-12 21:37:59	1	510000	1	Credit Card
	TR016	36	6	2018-07-24 15:24:21	2	680000	1	Credit Card
	TR018	38	8	2018-03-11 11:35:26	4	1520000	1	Credit Card
vw_CreditCardDoneTransaction 4 ×								

4. Displays the name of the OFFICIAL shop owner in the format: [shop code + shop owner's last name]



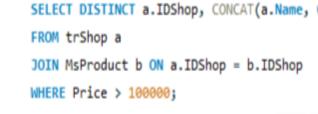
5. Displays product code, product name, product stock, price in format

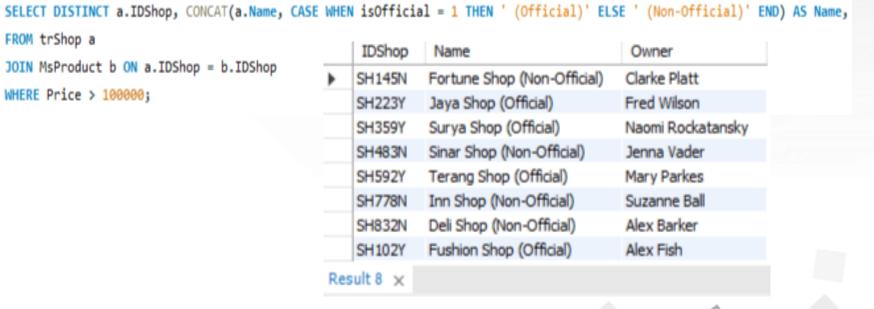
['Rp. ' + Price] of products that have more than 50 stocks SELECT IDProduct, Name, Stock, CONCAT('Rp. ', Price)

AS Price FROM MsProduct WHERE Stock > 50;

	IDProduct	Name	Stock	Price
•	1	Fidget Spinner	110	Rp. 49000
	2	Fidget Box	78	Rp. 39000
	4	Lego	103	Rp. 56000
	8	Mouse	98	Rp. 340000
	9	Keyboard	63	Rp. 760000
	10	Earphone	120	Rp. 120000
	13	Tooth Brush	81	Rp. 140000
	16	Guitar	70	Rp. 550000
	20	Flute	120	Rp. 55000
	27	Paper	100	Rp. 1000
	32	Jersey	55	Rp. 450000
	42	Fork	60	Rp. 4000
	42	C	EA	D- 4F00

6. Displays the shop code, shop name in the format shop\_name + official/non-official, owner, address that has a price of more than 100,000





#### Using queries to display data

7. Displays transaction code, product code, customer code, transaction date in the format dd mm yyyy, qty, total price, payment method from transactions that occurred in September and November.

```
SELECT IDTransaction, IDProduct, IDCustomer, DATE_FORMAT(TransactionDate, '%d %M %Y')
AS "Transaction Date", qty, totalprice, paymentmethod
FROM TrTransaction
WHERE MONTH(TransactionDate) IN (9, 11);
-- WHERE MONTH(TransactionDate) = 9 OR MONTH(TransactionDate) = 11
    IDTransaction IDProduc IDCustoms
                                                                    paymentmethod
                                                                    Credit Card
   TR004
                                 15 September 2018
                                                                   Debit
   TR012
                                                          2250000
                                                                    Credit Card
   TR014
   TR020
```

8. Create a Stored Procedure called 'Search\_Product' which accepts input/parameters of item names, and displays the name of the shop that sells the item, item code, item name, stock, price

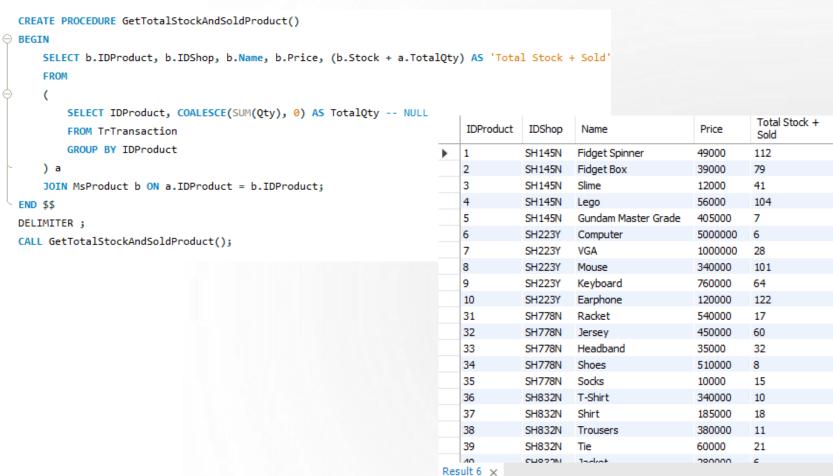
```
DELIMITER $$
CREATE PROCEDURE Search_Product(IN Input_param VARCHAR(255))
BEGIN
   SELECT b.Name as 'Shop Name', a.IDProduct as 'Product ID', a.Name as 'Product Name', a.Stock, a.Price
   FROM MsProduct a
   JOIN TrShop b ON a.idshop = b.IDShop
                                                     Shop
                                                                                    Product
    WHERE a.Name = Input param;
                                                                     Product ID
                                                                                                       Stock
                                                                                                                Price
                                                                                    Name
                                                     Name
END $$
                                                                                   Tooth Brush
                                                                                                                140000
                                                    Surva Shop
                                                                    13
                                                                                                      81
DELIMITER
CALL Search_Product('Tooth brush');
```

9. Displays customer code, customer name, PhoneNumber, and email that has a name with at least 3 words

```
SELECT IDCustomer, Name, PhoneNumber, Email FROM TrCustomer WHERE Name LIKE '% % %';
```

1					
1		IDCustomer	Name	PhoneNumber	Email
	•	1	Christiana Willis Cockle	202-555-0106	christiana@email.com
4		3	Suzanne Jones Greenway	202-555-0102	suzanne@email.com
		5	Beth Giantbulb Barlow	202-555-0140	beth@email.com
		7	Jeff Ferguson Platt	202-555-0120	jeff@email.com
Z		9	Charlotte Donaldson Hemingway	202-555-0270	charlotte@email.com
		NULL	HULL	NULL	NULL
	TrC	ustomer 1 ×			

10. Create a Stored Procedure called 'GetTotalStockAndSoldProduct', does not accept input/parameters which function to display all product details and [Total Stock + Sold] = total stock product + number of products that have been sold



11. Create a Stored Procedure called 'Search\_Shop', accepts as input/parameter the name of the shop OR the name of the owner which functions to display shop data according to the shop/owner entered

```
DELIMITER $$

CREATE PROCEDURE Search_Shop(IN Input_param VARCHAR(255))

BEGIN

SELECT * FROM TrShop

WHERE Name LIKE concat('%', Input_param, '%') OR

Owner LIKE concat('%', Input_param, '%');

END $$

DELIMITER;

CALL Search_Shop ('Nao');

IDShop Name Owner isOfficial Address

> SH359Y Surya Shop Naomi Rockatansky 1 4971 Good Luck Rd, Aynor, SC, 29511
```

PROJECT 02

# Python Programming.

#### Perform data preparation and cleaning

#### **Import Data using Pandas and Numpy**

```
import Dataset
import pandas as pd
import numpy as np

data = pd.read_csv("vgsales.csv")
data

Rank

Name Platform Year Genre Publisher NA Sales EU_Sales JP_Sales Other_Sales Global_Sales
```

The year and publisher variables have missing values, then fill in the missing values using the mode of each variable

Rank	0
Name	0
Platform	0
Year	271
Genre	0
Publisher	58
NA_Sales	0
EU_Sales	0
JP_Sales	0
Other_Sales	0
Global_Sales	0
dtype: int64	

```
Publisher NA_Sales EU_Sales JP_Sales Other_Sales Global_Sales
                                                 Wii Sports
                                                                 Wii 2006.0
                                                                                   Sports
                                                                                            Nintendo
                                                                                                          41.49
                                                                                                                    29.02
                                                                                                                              3.77
                                                                                                                                           8.46
                                                                                                                                                        82.74
                                                                NES 1985.0
                                                                                                                                                        40.24
                                          Super Mario Bros.
                                                                                 Platform
                                                                                            Nintendo
                                                                                                          29.08
                                                                                                                     3.58
                                                                                                                                           0.77
    2
                                             Mario Kart Wii
                                                                 Wii 2008.0
                                                                                            Nintendo
                                                                                                          15.85
                                                                                                                    12.88
                                                                                                                              3.79
                                                                                                                                           3.31
                                                                                                                                                        35.82
                                           Wii Sports Resort
                                                                 Wii 2009.0
                                                                                                          15.75
                                                                                                                    11.01
                                                                                                                              3.28
                                                                                                                                           2.96
                                                                                                                                                        33.00
                                                                                            Nintendo
                                Pokemon Red/Pokemon Blue
                                                                 GB 1996.0 Role-Playing
                                                                                            Nintendo
                                                                                                          11.27
                                                                                                                             10.22
                                                                                                                                           1.00
                                                                                                                                                        31.37
16593 16596
                         Woody Woodpecker in Crazy Castle 5
                                                                GBA 2002.0
                                                                                 Platform
                                                                                              Kemco
                                                                                                           0.01
                                                                                                                     0.00
                                                                                                                              0.00
                                                                                                                                           0.00
                                                                                                                                                         0.01
16594 16597
                                 Men in Black II: Alien Escape
                                                                 GC 2003.0
                                                                                  Shooter
                                                                                          Infogrames
                                                                                                           0.01
                                                                                                                     0.00
                                                                                                                              0.00
                                                                                                                                           0.00
16595
              SCORE International Baja 1000: The Official Game
                                                                                                                                                         0.01
       16598
                                                                 PS2 2008.0
                                                                                  Racing
                                                                                            Activision
                                                                                                          0.00
                                                                                                                     0.00
                                                                                                                              0.00
                                                                                                                                           0.00
16596 16599
                                               Know How 2
                                                                 DS 2010.0
                                                                                           7G//AMES
                                                                                                          0.00
                                                                                                                     0.01
                                                                                                                              0.00
                                                                                                                                           0.00
                                                                                                                                                         0.01
                                                                                   Puzzle
16597 16600
                                             Spirits & Spells
                                                                GBA 2003.0
                                                                                 Platform
                                                                                            Wanadoo
                                                                                                           0.01
                                                                                                                     0.00
                                                                                                                              0.00
                                                                                                                                           0.00
                                                                                                                                                         0.01
```

16598 rows × 11 columns

```
#Mengisi missing value
from scipy.stats import mode

data['Year'] = data['Year'].fillna(data['Year'].mode()[0])
data['Publisher'] = data['Publisher'].fillna(data['Publisher'].mode()[0])
```

Handling missing values uses the following syntax

There are no missing values in the data variables that will be used

#### Carry out data quality testing

```
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 16598 entries, 0 to 16597
Data columns (total 11 columns):
                 Non-Null Count Dtype
    Column
                  -----
    Rank
                 16598 non-null int64
                 16598 non-null object
    Name
                16598 non-null object
    Platform
                 16598 non-null float64
    Year
    Genre
                 16598 non-null object
                16598 non-null object
    Publisher
    NA Sales
                16598 non-null float64
    EU Sales
                 16598 non-null float64
    JP Sales
                16598 non-null float64
    Other Sales 16598 non-null float64
10 Global Sales 16598 non-null float64
dtypes: float64(6), int64(1), object(4)
memory usage: 1.4+ MB
```

The data type for year is float so it is converted to integer so that visualization can be carried out

```
data['Year']=data['Year'].astype('int64')
data.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 16598 entries, 0 to 16597
Data columns (total 11 columns):
    Column
                  Non-Null Count Dtype
    Rank
                  16598 non-null int64
                  16598 non-null object
    Name
                  16598 non-null object
    Platform
    Year
                  16598 non-null int64
    Genre
                  16598 non-null object
    Publisher
                 16598 non-null object
    NA Sales
                  16598 non-null float64
    EU Sales
                 16598 non-null float64
    JP Sales
                  16598 non-null float64
    Other Sales 16598 non-null float64
 10 Global Sales 16598 non-null float64
dtypes: float64(5), int64(2), object(4)
memory usage: 1.4+ MB
```

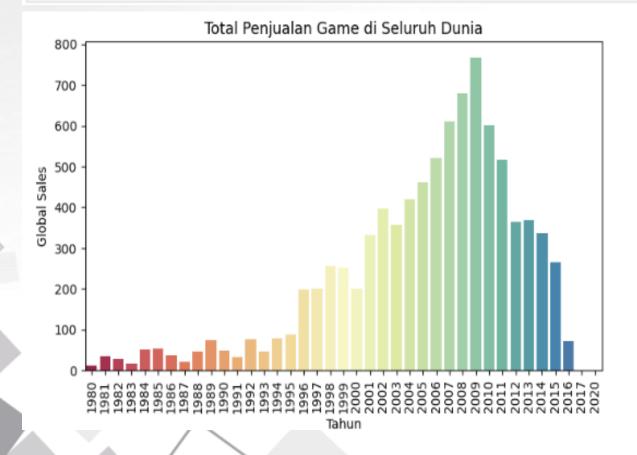
#### Perform data visualization

#### Create visualizations using histograms

```
plt.figure(figsize=(17,10))

plt.subplot(2,2,1)
sns.barplot(x='Year', y='Global_Sales', data=data.groupby(data['Year']).sum().Global_Sales.reset_index(), palette='Spectral')
plt.ylabel('Global_Sales')
plt.xlabel('Tahun')
plt.xticks(rotation=90)
plt.title('Total_Penjualan_Game_di_Seluruh_Dunia')

plt.subplot(2,2,2)
sns.barplot(x=data['Year'].value_counts().index, y=data['Year'].value_counts())
plt.ylabel('Jumlah_Game')
plt.xlabel('Tahun')
plt.xticks(rotation=90)
plt.title('Total_Jumlah_Game_yang_Dirilis_Setiap_Tahun');
```



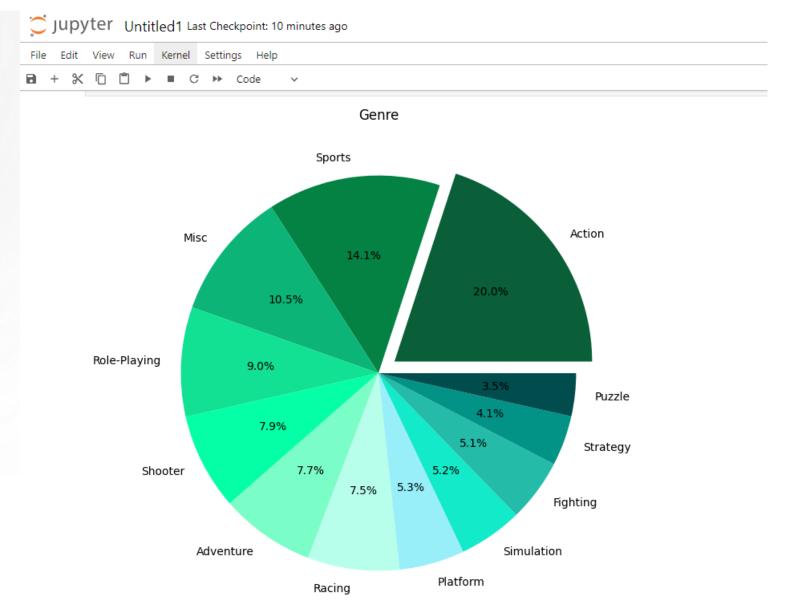


Visualize based on total game sales worldwide and total games released each year. From the results of the visualization, it can be seen that 2009 was the year with the most game sales because in the same year, 2009 was the year with the highest number of games released compared to the previous year.

#### Perform data visualization

#### Create visualizations using pie charts

```
#Persentase Genre Game (Pie Chart)
plt.figure(figsize=(8,8))
color=['#0a5f38','#048243','#0cb577','#12e193','#05ffa6','#7bfdc7','#b8ffeb','#98eff9','#13eac9','#24bca8','#029386','#014d4e']
exp=[0.1,0,0,0,0,0,0,0,0,0,0,0]
plt.pie(data['Genre'].value_counts(), labels=data['Genre'].value_counts().index,autopct='%1.1f%%', explode=exp, colors=color);
plt.title('Genre');
```



Visualize based on the genre of games sold. From the results of the visualization, it can be seen that games with the action genre are most popular with game lovers from all over the world at 20%, followed by games with the sports genre at 14.1%.

#### Perform data visualization

#### Create visualizations using bar charts

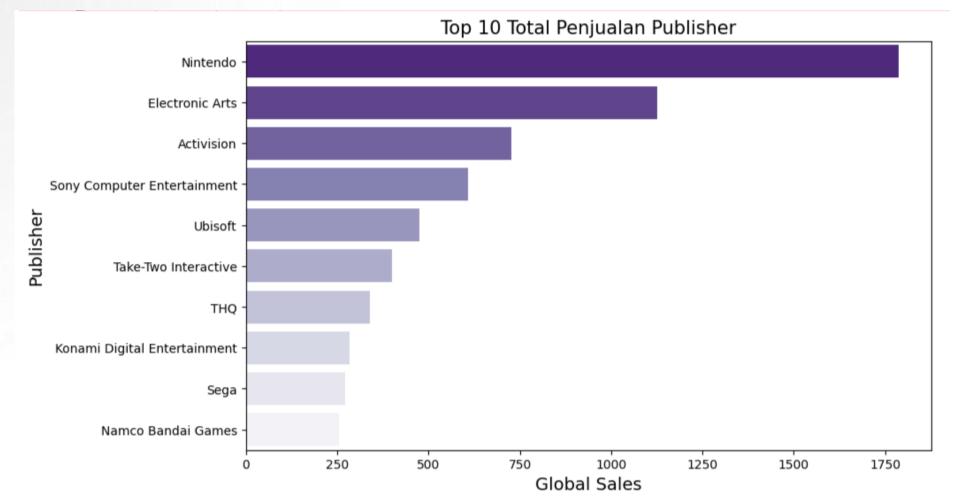
```
#Top 10 Total Penjualan Publisher (Bar Chart)

df = data.groupby(['Publisher']).sum()['Global_Sales']

df = pd.DataFrame(df.sort_values(ascending=False))[0:10]
publishers = df.index

df.columns = ['Global Sales']

plt.figure(figsize=(10,6))
ax = sns.barplot(y=publishers, x='Global Sales', data=df, palette='Purples_r')
ax.set_xlabel(xlabel='Global Sales', fontsize=14)
ax.set_ylabel(ylabel='Publisher', fontsize=14)
ax.set_title(label='Top 10 Total Penjualan Publisher', fontsize=15)
ax.set_yticklabels(labels = publishers)
plt.show();
```



Create a visualization based on the top 10 total sales from publishers/game makers. From the results of the visualization it can be seen that Nintendo games are the best-selling games on the market

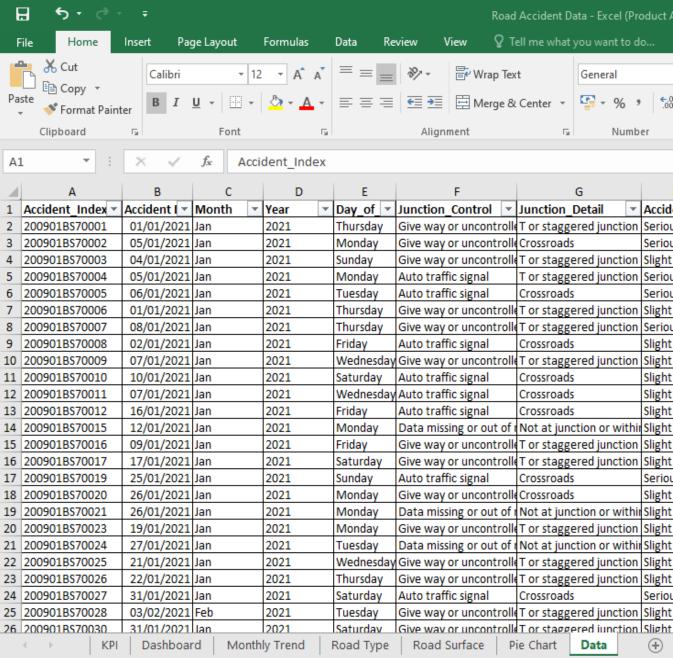
PROJECT 03

# Microsoft

EXCEL.

#### **Road Accident Dashboard**





#### Summary

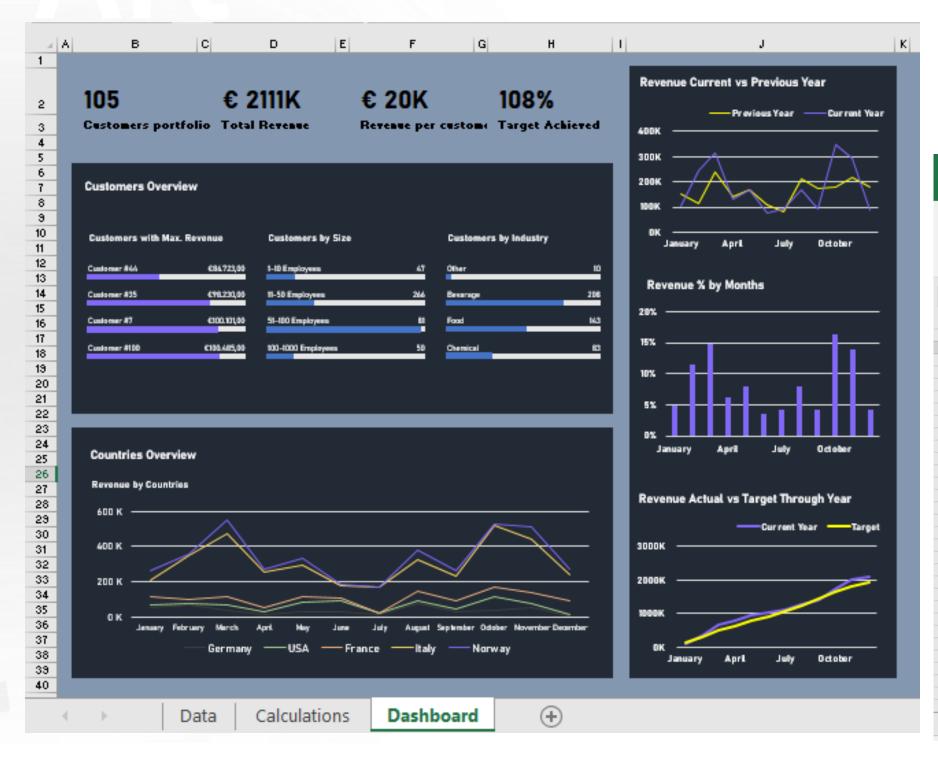
#### What did I do

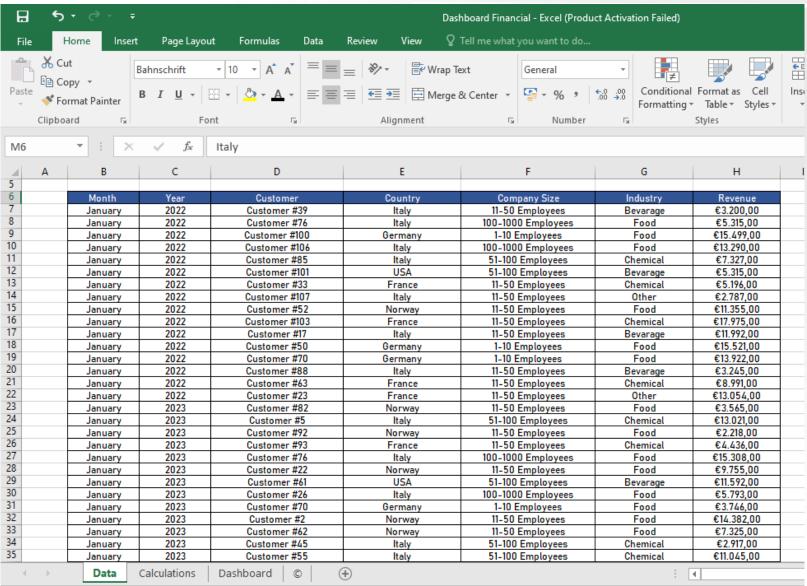
- Create KPIs (Key Performance Indicators) such as total fatalities occurring after the accident, total fatalities and percentage of the total based on the severity of the accident and maximum number of casualties by vehicle type, and total casualties by vehicle type
- Create a visualization model of monthly trends that shows the comparison of the number of victims in the current year and the previous year, the maximum trend that shows the comparison of the number of victims in the current year and the previous year, the maximum number of victims by road type, the distribution of the number of victims based on road surface, and the relationship between victims by region/location and by day or night

#### Result

From the KPI (Key Performance Indicator) it can be seen the total number of fatalities that occurred after the accident, the total fatalities and the total percentage based on the severity of the accident and the maximum number of victims by vehicle type, and the total casualties based on the type of vehicle and from the visualization model provided. data can be read based on the factors that cause accidents and can be used as an evaluation for the authorities and the public to be more alert in the future

#### **Company Financial Dashboard**





#### Summary

#### What did I do?

- Create KPIs (Key Performance Indicators) such as number of customer portfolios, total revenue, revenue per customer, and target achievements
- Create a visualization in the form of a bar chart that shows an overview of customers divided into three views, namely based on customers with maximum income, customers by size, and customers by industry origin
- Create visualizations in the form of graphs or line charts to show a general overview of income according to country of origin
- Create visualizations in the form of graphs or line charts to show current revenue vs previous year
- Create a visualization in the form of a histogram to show revenue % by month
- Create visualizations in the form of graphs or line charts to show actual vs target income throughout the year

#### Result

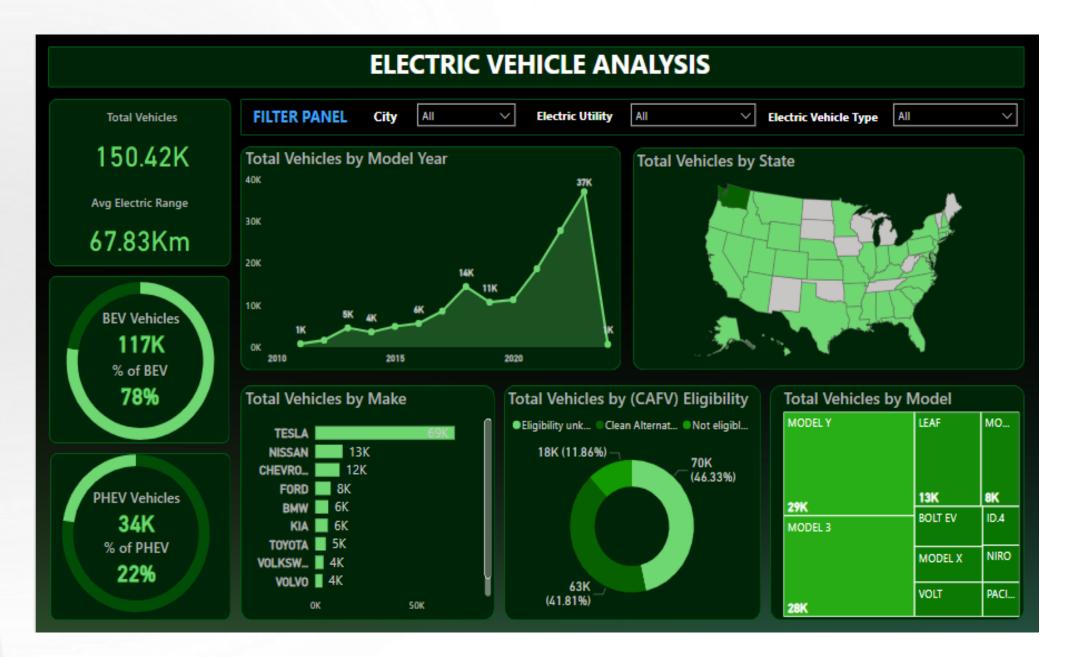
From the KPI (Key Performance Indicator) you can find out the total number of customer portfolios, total revenue, income for each customer, and target achievements. Then, from the results of the visualization, you can find out an overview of customers, an overview of revenue by country, current revenue vs previous year, revenue % by month, and actual revenue vs target throughout the year.

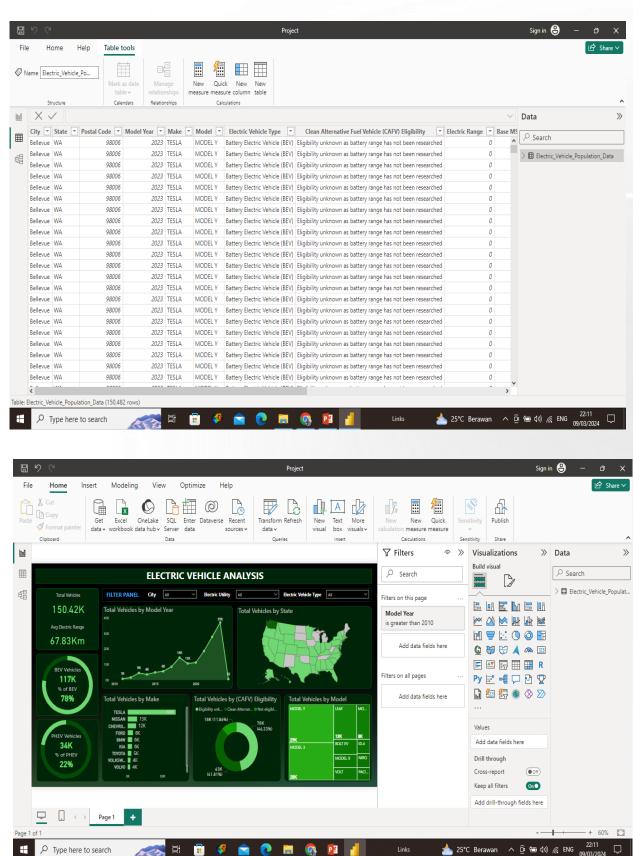
PROJECT 04

# VICTOSOFT

# Power BI.

#### Electric Vehicle Analysis Dashboard





#### Summary

#### What did I do?

- Create requirements for key performance indicators as initial information or as an outline of the problem such as total vehicles, average
  range of electric vehicles, total BEV vehicles and percentage of total BEV vehicles, total PHEV vehicles and percentage of total PHEV
  vehicles
- Create charts of Total Vehicles by Model Year (From 2010 onwards), Total Vehicles by State, Top 10 Total Vehicles by Brand, Total Vehicles by CAFV (Clean Alternative Fuel Vehicle) Eligibility, and Top 10 Total Vehicles by Model.
- Create visualization models using Power BI that are attractive and easy to read

#### What is the project about??

From the performance Requirements Indicators, we want to understand the entire electric vehicle landscape, which includes BEVs and PHEVs, to assess market size and growth, determine the average electric range of electric vehicles in a data set to measure the technological progress and efficiency of electric vehicles and identify and analyze the number of total Battery Electric Vehicles (BEV) and Hybrid vehicles (PHEV) in the data set and determine the percentage of total BEV and PHEV vehicles

#### Result

From the Performance Requirements Indicator we can find out the total number of BEV and PHEV vehicles to see the growth of the electric vehicle market, the average electric range in kilometers to see the efficiency of the technology used, and the total number of each BEV and PHEV vehicle along with the percentage of the total vehicles

## My Contact



+6281330173085



mnafis48@gmail.com



www.linkedin.com/in/muhnafis



Malang, Indonesia



# thank you.

Let's Mork Together