LAPORAN AKHIR PRAKTIKUM

Mata Praktikum : Sistem Basis Data 1

Kelas : 3IA02

Praktikum ke : 4

Tanggal : 12 November 2022

Materi : Select (DML) & Ekspresi Aritmatika

NPM : 50420562

Nama : Ibrahim Bramullah

Ketua Asisten : Natasya Rahma Fadilla

Jumlah Lembar : 7

LABORATORIUM TEKNIK INFORMATIKA UNIVERSITAS GUNADARMA 2022

1. Buat Tabel dengan nama Product.

```
CREATE TABLE product(
PRODUCT ID varchar(255) PRIMARY KEY,
CATEGORY varchar(255),
SUB_CATEGORY varchar(255),
PRODUCT_NAME varchar(255)
);
 1
    --1--
 2
    create table product(
 3
    PRODUCT_ID varchar(255) PRIMARY KEY,
 4
    CATEGORY varchar(255),
 5
    SUB_CATEGORY varchar(255),
    PRODUCT_NAME varchar(255)
 7
   );
 8
```

2. Tampilkan Struktur data pada tabel product yang telah dibuat.



3. Masukkan data berikut ke dalam tabel Product, lalu tampilkan isi tabel sales.

INSERT INTO product VALUES

('FUR-CH-10000454','Furniture','Chairs','Hon Deluxe Fabric Upholstered Stacking Chairs Rounded Back'),

('OFF-LA-10000240', 'Office Supplies', 'Labels', 'Self-Adhesive Address Labels for Typewriters by Universal'),

('FUR-TA-10000577', 'Furniture', 'Tables', 'Bretford CR4500 Series Slim Rectangular Table'),

('OFF-ST-10000760', 'Office Supplies', 'Storage', 'Eldon Fold N Roll Cart System'),

('FUR-FU-10001487', 'Furniture', 'Furnishings', 'Eldon Expressions Wood and Plastic Desk Accessories Cherry Wood'),

('OFF-AR-10002833','Office Supplies','Art','Newell 322'),

('TEC-PH-10002775', 'Technology', 'Phones', 'Mitel 5320 IP Phone VoIP phone'),

('OFF-BI-10003910', 'Office Supplies', 'Binders', 'DXL Angle-View Binders with Locking Rings by Samsill'),

('OFF-AP-10002892', 'Office Supplies', 'Appliances', 'Belkin F5C206VTEL 6 Outlet Surge'),

('FUR-TA-10001539', 'Furniture', 'Tables', 'Chromcraft Rectangular Conference Tables'),

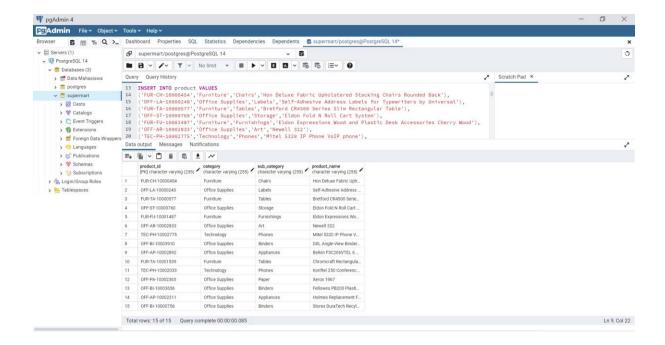
('TEC-PH-10002033', 'Technology', 'Phones', 'Konftel 250 Conference phone Charcoal black'),

('OFF-PA-10002365','Office Supplies','Paper','Xerox 1967'),

('OFF-BI-10003656', 'Office Supplies', 'Binders', 'Fellowes PB200 Plastic Comb Binding Machine'),

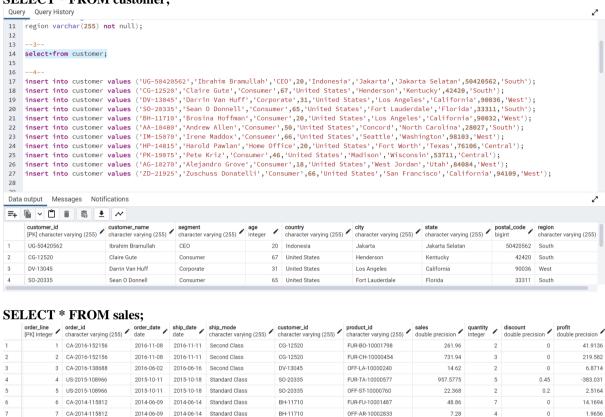
('OFF-AP-10002311','Office Supplies','Appliances','Holmes Replacement Filter for HEPA Air Cleaner Very Large Room HEPA Filter'),

('OFF-BI-10000756','Office Supplies','Binders','Storex DuraTech Recyled Plastic Frosted Binders');



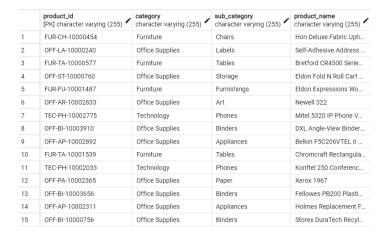
4. Tampilkan data pada tabel customer, sales, product yang terdapat dalam database supermart.

SELECT * FROM customer;



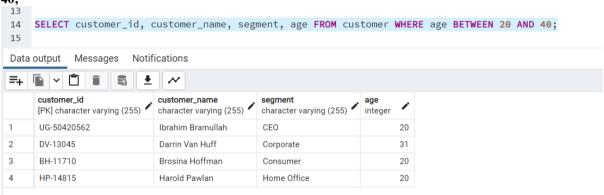
	order_line [PK] integer	order_id character varying (255)	order_date /	ship_date /	ship_mode character varying (255)	customer_id character varying (255)	product_id character varying (255)	sales double precision	quantity integer	discount double precision	profit double precision
1	1	CA-2016-152156	2016-11-08	2016-11-11	Second Class	CG-12520	FUR-BO-10001798	261.96	2	0	41.9136
2	2	CA-2016-152156	2016-11-08	2016-11-11	Second Class	CG-12520	FUR-CH-10000454	731.94	3	0	219.582
3	3	CA-2016-138688	2016-06-02	2016-06-16	Second Class	DV-13045	OFF-LA-10000240	14.62	2	0	6.8714
4	4	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO-20335	FUR-TA-10000577	957.5775	5	0.45	-383.031
5	5	US-2015-108966	2015-10-11	2015-10-18	Standard Class	SO-20335	OFF-ST-10000760	22.368	2	0.2	2.5164
6	6	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-FU-10001487	48.86	7	0	14.1694
7	7	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AR-10002833	7.28	4	0	1.9656
8	8	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002275	907.152	6	0.2	90.7152
9	9	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-BI-10003910	18.504	3	0.2	5.7825
10	10	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	OFF-AP-10002892	114.9	5	0	34.47
11	11	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	FUR-TA-10001539	1706.184	9	0.2	85.3092
12	12	CA-2014-115812	2014-06-09	2014-06-14	Standard Class	BH-11710	TEC-PH-10002033	911.424	4	0.2	68.3568
13	13	CA-2014-115812	2017-04-15	2017-04-20	Standard Class	AA-10480	OFF-PA-10002365	15.552	3	0.2	5.4432
14	14	CA-2016-161389	2016-12-05	2016-12-10	Standard Class	IM-15070	OFF-BI-10003656	407.976	3	0.2	132.5922
15	15	US-2015-118983	2015-11-22	2015-11-26	Standard Class	HP-14815	OFF-AP-10002311	68.81	5	0.8	-123.858
16	16	US-2015-118983	2015-11-22	2015-11-26	Standard Class	HP-14815	OFF-BI-10000756	2.544	3	0.8	-3.816
Total	rows: 16 of 16	5 Ouery complete 00:	00:00 182								

SELECT * FROM product;



5. Tampilkan id, nama, segmen, dan usia customer yang berusia 20-40 tahun.

SELECT customer_id, customer_name, segment, age FROM customer WHERE age BETWEEN 20 AND 40;

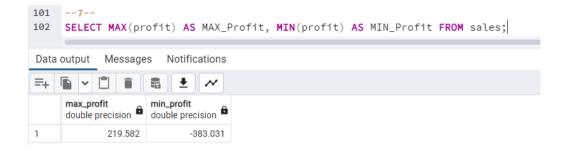


6. Tampilkan data product dari tabel product yang memiliki sub kategori 'Binders' atau 'Tables'.



7. Tampilkan profit terbesar dan profit terkecil dari tabel sales.

SELECT MAX(profit) AS MAX_Profit, MIN(profit) AS MIN_Profit FROM sales;

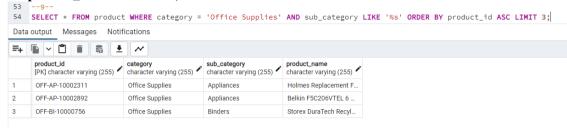


8. Tampilkan id customer, nama customer, usia, kota dan negara bagian dari customer yang memiliki nama dengan huruf awal 'J' dan tinggal di kota Los Angeles dan San Fransisco.

```
SELECT
       customer_id,
       customer_name,
       age,
       city
STATE FROM customer
WHERE customer_name
LIKE 'J%'AND city IN ('Los Angeles', 'San Fransisco');
SELECT
    customer_id,
    customer_name,
    age,
    city
STATE FROM customer
WHERE customer_name LIKE'J%'AND city IN('Los Angeles','San Fransisco');
output
       Messages Notifications
customer_name
                                           age
                                                     state
 [PK] character varying (255) character varying (255) integer
                                                     character varying (255)
```

9. Tampilkan 3 baris data pada tabel product yang memiliki kategori 'Office Supplies' dan sub kategori yang berakhiran huruf 's' dengan id product yang terurut secara ascending.

SELECT * FROM product WHERE category = 'Office Supplies' AND sub_category LIKE 's%' ORDER BY product_id ASC LIMIT 3;



10. Tampilkan jumlah biaya penjualan, rata-rata biaya penjualan, jumlah profit, dan rata-rata profit yang dihasilkan dari tabel sales.

SELECT

SUM(sales) AS SUM_Sales, AVG(sales) AS SUM_Profit, AVG(profit) FROM sales;

