LAPORAN ACTIVITY

Mata Praktikum	: Sistem Basis Data 1
Kelas	: 3IA24
Praktikum ke-	: 3
Tanggal	: 5 Desember 2023
Materi	: Equi & Outer Join
NPM	: 50421704
Nama	: Juan Samuel Christopher
Ketua Asisten	: Madanil
Nama Asisten	:
Paraf Asisten	:
Jumlah Lembar	: 4

LABORATORIUM TEKNIK INFORMATIKA

UNIVERSITAS GUNADARMA

2023

LISTING PROGRAM

```sql
1   CREATE TABLE customer
2   (
3   customer_id varchar(255) not null primary key,
4       customer_name varchar(255),
5       segment varchar(255),
6       age int,
7       country varchar(255),
8       city varchar(255),
9       postal_code varchar(255),
10      region varchar(255)
11  );
12
13  insert into customer values ('TKD-5930248', 'Dodi', 'Customer', '21', 'Indonesia', 'Bekasi', '13175', 'A');
14  insert into customer values ('TKD-5530248', 'Markel', 'Customer', '22', 'Indonesia', 'Depok', '13532', 'J');
15  insert into customer values ('TKD-5932148', 'Wirnu', 'Customer', '24', 'Indonesia', 'Cikarang', '12464', 'S');
16  insert into customer values ('TKD-4530248', 'Juan', 'Customer', '20', 'Indonesia', 'Bogor', '13733', 'C');
17  insert into customer values ('TKD-5935448', 'Ariep', 'Customer', '26', 'Indonesia', 'Bandung', '12452', 'Z');
18  insert into customer values ('TKD-5937548', 'Aliep', 'Customer', '23', 'Indonesia', 'Jakarta', '17531', 'G');
19
20  CREATE TABLE product
21  (
22  product_id varchar(255) not null primary key,
23      category varchar(255),
24      sub_category varchar(255),
25      product_name varchar(255)
26  );
27
28  insert into product values ('M2812K11AG', 'Electronic', 'Smartphone', 'Xiaomi Poco F3');
29  insert into product values ('M221T10AG', 'Electronic', 'Smartphone', 'Xiaomi Redmi Note 10 Pro');
30  insert into product values ('M2241BA5RW', 'Electronic', 'Smartphone', 'Xiaomi Lite 12');
31  insert into product values ('AN515', 'Electronic', 'Laptop', 'Acer Nitro 5');
32  insert into product values ('SM5276K11AG', 'Electronic', 'Smartphone', 'Samsung A54 5G');
33  insert into product values ('MK012K11TD', 'Electronic', 'Smartphone', 'Xiaomi Poco M3');
34
35  CREATE TABLE sales
36  (
37  order_line int not null primary key,
38      order_id varchar(255),
39      order_date date,
40      ship_date date,
41      ship_mode varchar(255),
42      customer_id varchar(255),

43      product_id varchar(255),
44      sales double precision,
45      quantity int,
46      discount double precision,
47      profit double precision
48  );
49  insert into sales values ('001', 'INV-05122023-01', '5-12-2023', '6-12-2023', 'JNE',
50                          'TKD-5930248', 'M2812K11AG', '3699000', '1', '0.05', '0.05' );
51
52  insert into sales values ('002', 'INV-06122023-02', '6-12-2023', '7-12-2023', 'SiLambat',
53                          'TKD-5530248', 'M221T10AG', '5499000', '1', '0.00', '0.05' );
54
55  insert into sales values ('003', 'INV-07122023-03', '7-12-2023', '8-12-2023', 'J&T',
56                          'TKD-5932148', 'M2241BA5RW', '3699000', '1', '0.1', '0.0' );
57
58  insert into sales values ('004', 'INV-08122023-04', '8-12-2023', '9-12-2023', 'REG',
59                          'TKD-4530248', 'AN515', '13599000', '1', '0.05', '0.15' );
60
61  insert into sales values ('005', 'INV-09122023-05', '9-12-2023', '10-12-2023', 'OKE',
62                          'TKD-5935448', 'SM5276K11AG', '8699000', '1', '0.15', '0.07' );
63
64  insert into sales values ('006', 'INV-10122023-06', '10-12-2023', '11-12-2023', 'JTR',
65                          'TKD-5937548', 'MK012K11TD', '2399000', '1', '0.0', '0.2' );
66
67  Select customer.customer_id, customer.customer_name, customer.city, sales.order_date, sales.ship_mode
68  FROM customer, sales
69  WHERE customer.customer_id = sales.customer_id
70
71  SELECT * FROM product JOIN sales ON product.product_id = sales.product_id
72
73  Select c.customer_name, sa.ship_date, sa.ship_mode, p.product_name
74  FROM customer c, sales sa, product p
75  WHERE c.customer_id = sa.customer_id and sa.product_id = p.product_id
```

OUTPUT PROGRAM

- **Customer table**

	customer_id [PK] character varying (255)	customer_name character varying (255)	segment character varying (255)	age integer	country character varying (255)	city character varying (255)	postal_code character varying (255)	region character varying (255)
1	TKD-5930248	Dodi	Customer	21	Indonesia	Bekasi	13175	A
2	TKD-5530248	Markel	Customer	22	Indonesia	Depok	13532	J
3	TKD-5932148	Wirna	Customer	24	Indonesia	Cikarang	12464	S
4	TKD-4530248	Auan	Customer	20	Indonesia	Bogor	13733	C
5	TKD-5935448	Anep	Customer	26	Indonesia	Bandung	12452	Z
6	TKD-5937548	Adep	Customer	23	Indonesia	Jakarta	17591	G

- **Product table**

	product_id [PK] character varying (255)	category character varying (255)	sub_category character varying (255)	product_name character varying (255)
1	M2012K11AG	Electronic	Smartphone	Xiaomi Poco F3
2	M221T10AG	Electronic	Smartphone	Xiaomi Redmi Note 10 Pro
3	M2241BA5RW	Electronic	Smartphone	Xiaomi Lite 12
4	AN515	Electronic	Laptop	Acer Nitro 5
5	SM5276K11AG	Electronic	Smartphone	Samsung A54 5G
6	MK012K11TD	Electronic	Smartphone	Xiaomi Poco M3

- **Sales table**

	order_line [PK] integer	order_id character varying (255)	order_date date	ship_date date	ship_mode character var	customer_id character varying	product_id character varying (	sales double precis	quantity integer	discount double precis	profit double precis
1	1	INV-05122023-01	2023-05-12	2023-06-12	JNE	TKD-5930248	M2012K11AG	5699000	1	0.05	0.05
2	2	INV-06122023-02	2023-06-12	2023-07-12	SiLambat	TKD-5530248	M221T10AG	5499000	1	0.08	0.05
3	3	INV-07122023-03	2023-07-12	2023-08-12	J&T	TKD-5932148	M2241BA5RW	3699000	1	0.1	0
4	4	INV-08122023-04	2023-08-12	2023-09-12	REG	TKD-4530248	AN515	13599000	1	0.05	0.15
5	5	INV-09122023-05	2023-09-12	2023-10-12	OKE	TKD-5935448	SM5276K11AG	8699000	1	0.15	0.07
6	6	INV-10122023-06	2023-10-12	2023-11-12	JTR	TKD-5937548	MK012K11TD	2399000	1	0	0.2

- **Equi Join**

	customer_id character varying (255)	customer_name character varying (255)	city character varying (255)	order_date date	ship_mode character varying (255)
1	TKD-5930248	Dodi	Bekasi	2023-05-12	JNE
2	TKD-5530248	Markel	Depok	2023-06-12	SiLambat
3	TKD-5932148	Wirnu	Cikarang	2023-07-12	J&T
4	TKD-4530248	Juan	Bogor	2023-08-12	REG
5	TKD-5935448	Ariep	Bandung	2023-09-12	OKE
6	TKD-5937548	Aliep	Jakarta	2023-10-12	JTR

- **Join ON**

	product_id character varying (	category character var	sub_category character varyin	product_name character varying (255)	order_line integer	order_id character varying (255)	order_date date	ship_date date	ship_mode character var	customer_id character varying	product_id character varying	sales double precis	quantity integer	discount double precis	profit double precis
1	M2012K11AG	Electronic	Smartphone	Xiaomi Poco F3	1	INV-05122023-01	2023-05-12	2023-06-12	JNE	TKD-5930248	M2012K11AG	5699000	1	0.05	0.05
2	M221T10AG	Electronic	Smartphone	Xiaomi Redmi Note 10 Pro	2	INV-06122023-02	2023-06-12	2023-07-12	SiLambat	TKD-5530248	M221T10AG	5499000	1	0.08	0.05
3	M2241BA5RW	Electronic	Smartphone	Xiaomi Lite 12	3	INV-07122023-03	2023-07-12	2023-08-12	J&T	TKD-5932148	M2241BA5RW	3699000	1	0.1	0
4	AN515	Electronic	Laptop	Acer Nitro 5	4	INV-08122023-04	2023-08-12	2023-09-12	REG	TKD-4530248	AN515	13599000	1	0.05	0.15
5	SM5276K11AG	Electronic	Smartphone	Samsung A54 5G	5	INV-09122023-05	2023-09-12	2023-10-12	OKE	TKD-5935448	SM5276K11AG	8699000	1	0.15	0.07
6	MK012K11TD	Electronic	Smartphone	Xiaomi Poco M3	6	INV-10122023-06	2023-10-12	2023-11-12	JTR	TKD-5937548	MK012K11TD	2399000	1	0	0.2

- **JOIN 3 table**

	customer_name character varying (255)	ship_date date	ship_mode character varying (255)	product_name character varying (255)
1	Dodi	2023-06-12	JNE	Xiaomi Poco F3
2	Markel	2023-07-12	SiLambat	Xiaomi Redmi Note 10 Pro
3	Wirnu	2023-08-12	J&T	Xiaomi Lite 12
4	Juan	2023-09-12	REG	Acer Nitro 5
5	Ariep	2023-10-12	OKE	Samsung A54 5G
6	Aliep	2023-11-12	JTR	Xiaomi Poco M3