

Tugas Topik 3 Praktikum Basis Data

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- 1) Tuliskan query untuk membuat database store
Create database store;
- 2) Tuliskan query untuk membuat tabel Customer, tabel Product dan Tabel Transaction, dengan struktur sebagai berikut

create table if not exists Customer(

- > customerNumber varchar(5) not null,
- > customerName varchar(255) not null,
- > city varchar(100),
- > primary key(customerNumber)
- >);

Create table if not exists Product(

- > productNumber varchar(5) not null,
- > productName varchar(100) not null,
- > stock int(3) default 15,
- > primary key(productNumber)
- >);

create table if not exists Transaction(

- > transactionNumber varchar(5) not null,
- > transactionDate date,
- > customerNumber varchar(5) not null,
- > primary key(transactionNumber),
- > foreign key(customerNumber) references customer(customerNumber)

Tabel Customer

Field Name	Tipe	Panjang Data	Keterangan
customerNumber	varchar	5	NOT NULL, Primary Key
customerName	varchar	255	NOT NULL
city	varchar	100	

Tabel Product

Field Name	Tipe	Panjang Data	Keterangan
productNumber	varchar	5	NOT NULL, Primary Key
productName	varchar	100	NOT NULL
stock	int	3	DEFAULT = 15

Tabel Transaction

Field Name	Tipe	Panjang Data	Keterangan
transactionNumber	varchar	5	NOT NULL, Primary Key
transactionDate	date		
customerNumber	varchar	5	Foreign Key

- 3) Tuliskan query untuk memasukkan data pada ketiga tabel sesuai dengan data berikut (boleh langsung ditambahkan beberapa baris data sekaligus)

insert into customer(customerNumber, customerName, city) values

-> ('C-003', 'Geneva Electronic', 'Bandung'),
-> ('C-007', 'Gama Store', 'Yogyakarta'),
-> ('C-009', 'Family Mart', 'Medan'),
-> ('C-011', 'Stat Store', 'Bandung');

insert into product(productNumber, productName, stock) values

-> ('P-100', 'Monitor 17', default),
-> ('P-120', 'Keyboard Ps2', 20),
-> ('P-123', 'Mouse Ps2', default),
-> ('P-125', 'Memory 512', 10);

insert into transaction(transactionNumber, transactionDate, customerNumber) values

-> ('T-001', '2019-10-19', 'C-011'),
-> ('T-002', '2020-01-10', 'C-003'),
-> ('T-003', '2020-08-07', 'C-009'),
-> ('T-004', '2020-09-09', 'C-007');

Tabel Customer

customerNumber	customerName	city
C-003	Geneva Electronic	Bandung
C-007	Gama Store	Yogyakarta
C-009	Family Mart	Medan
C-011	Star Store	Bandung

Tabel Product

productNumber	productName	stock
P-100	Monitor 17	15
P-120	Keyboard Ps2	20
P-123	Mouse Ps2	15
P-125	Memory 512	10

Tabel Transaction

transactionNumber	transactionDate	customerNumber
T-001	2019-10-19	C-011
T-002	2020-01-10	C-003
T-003	2020-08-07	C-009
T-004	2020-09-09	C-007

- 4) Tampilkan nama *city* dari *Customer* secara unik
select distinct city from customer;

```
mysql> select distinct city from customer;
+-----+
| city |
+-----+
| Bandung |
| Yogyakarta |
| Medan |
+-----+
3 rows in set (0.00 sec)
```

- 5) Tampilkan seluruh data *Customer*

select * from customer;

```
mysql> select * from customer;
+-----+-----+-----+
| customerNumber | customerName | city |
+-----+-----+-----+
| C-003          | Geneva Electronic | Bandung |
| C-007          | Gama Store      | Yogyakarta |
| C-009          | Family Mart     | Medan |
| C-011          | Stat Store      | Bandung |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

- 6) Tampilkan *productName* dan *stock* dari seluruh data *product*

select productName, stock from product;

```
mysql> select productName, stock from product;
+-----+-----+
| productName | stock |
+-----+-----+
| Monitor 17  | 15    |
| Keyboard Ps2 | 20    |
| Mouse Ps2   | 15    |
| Memory 512  | 10    |
+-----+-----+
4 rows in set (0.00 sec)
```

- 7) Tampilkan *customerName* yang tinggal di kota Bandung

select customerName from customer where city='Bandung';

```
mysql> select customerName from customer where city='Bandung';
+-----+
| customerName |
+-----+
| Geneva Electronic |
| Stat Store      |
+-----+
2 rows in set (0.00 sec)
```

- 8) Tampilkan *transactionDate* yang dilakukan oleh customer yang memiliki *customerNumber* C-007

select transactionDate from transaction where customerNumber='C-007';

```
mysql> select transactionDate from transaction where customer
Number='C-007';
+-----+
| transactionDate |
+-----+
| 2020-09-09      |
+-----+
1 row in set (0.00 sec)
```

- 9) Tampilkan seluruh data *product* yang memiliki stock 15

select * from product where stock=15;

```
mysql> select * from product where stock=15;
+-----+-----+-----+
| productNumber | productName | stock |
+-----+-----+-----+
| P-100         | Monitor 17  | 15    |
| P-123         | Mouse Ps2   | 15    |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

- 10) Ubahlah *transactionDate* dari *customer* yang memiliki *customerNumber* C-007 menjadi tanggal hari ini

update transaction set transactionDate=curdate() where customerNumber = 'C-007';

```
mysql> update transaction set transactionDate=curdate() where
customerNumber = 'C-007';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from transaction
-> ;
+-----+-----+-----+
| transactionNumber | transactionDate | customerNumber |
+-----+-----+-----+
| T-001 | 2019-10-19 | C-011 |
| T-002 | 2020-01-10 | C-003 |
| T-003 | 2020-08-07 | C-009 |
| T-004 | 2024-09-17 | C-007 |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

- 11) Ubahlah *customerName* menjadi HappyFamily Mart dan *city* menjadi Jakarta untuk customer yang memiliki *customerNumber* C-009

update customer set customerName='HappyFamily Mart', city='Jakarta' where customerNumber = 'C-009';

```
mysql> update customer set customerName='HappyFamily Mart', c
ity='Jakarta' where customerNumber = 'C-009';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> select * from customer;
+-----+-----+-----+
| customerNumber | customerName | city |
+-----+-----+-----+
| C-003 | Geneva Electronic | Bandung |
| C-007 | Gama Store | Yogyakarta |
| C-009 | HappyFamily Mart | Jakarta |
| C-011 | Stat Store | Bandung |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

- 12) Tambahkan data *product* berikut menggunakan nilai DEFAULT

productNumber	productName	stock
P-130	NIC D-Link	15

insert into product(productNumber, productName, stock)

-> values('P-130', 'NIC D-Link', default);

```
mysql> insert into product(productNumber, productName, stock)
-> values('P-130', 'NIC D-Link', default);
Query OK, 1 row affected (0.00 sec)

mysql> select * from product;
+-----+-----+-----+
| productNumber | productName | stock |
+-----+-----+-----+
| P-100 | Monitor 17 | 15 |
| P-120 | Keyboard Ps2 | 20 |
| P-123 | Mouse Ps2 | 15 |
| P-125 | Memory 512 | 10 |
| P-130 | NIC D-Link | 15 |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

- 13) Tambahkan data *transaction* berikut menggunakan tanggal hari ini pada *transactionDate*

transactionNumber	transactionDate	customerNumber
T-005	<i>current_date</i>	C-003
T-006	<i>current_date</i>	C-011

```
insert into transaction(transactionNumber, transactionDate, customerNumber)values
-> ('T-005', curdate(), 'C-003'),
-> ('T-006', curdate(), 'C-011');
```

```
mysql> insert into transaction(transactionNumber, transactionDate, customerNumber)values
-> ('T-005', curdate(), 'C-003'),
-> ('T-006', curdate(), 'C-011');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select * from transaction
-> ;\

+-----+-----+-----+
| transactionNumber | transactionDate | customerNumber |
+-----+-----+-----+
| T-001             | 2019-10-19      | C-011          |
| T-002             | 2020-01-10      | C-003          |
| T-003             | 2020-08-07      | C-009          |
| T-004             | 2024-09-17      | C-007          |
| T-005             | 2024-09-17      | C-003          |
| T-006             | 2024-09-17      | C-011          |
+-----+-----+-----+
```

- 14) Hapuslah 2 data *transaction* pertama yang diurutkan berdasarkan *transactionNumber* delete from transaction order by transactionNumber limit 2;

```
mysql> delete from transaction order by transactionNumber limit 2;
Query OK, 2 rows affected (0.00 sec)

mysql> select * from transaction;
+-----+-----+-----+
| transactionNumber | transactionDate | customerNumber |
+-----+-----+-----+
| T-003             | 2020-08-07      | C-009          |
| T-004             | 2024-09-17      | C-007          |
| T-005             | 2024-09-17      | C-003          |
| T-006             | 2024-09-17      | C-011          |
+-----+-----+-----+
4 rows in set (0.00 sec)
```

- 15) Hapuslah 2 data *transaction* terakhir yang diurutkan berdasarkan *transactionNumber* delete from transaction order by transactionNumber desc limit 2

```
mysql> delete from transaction order by transactionNumber desc limit 2;
Query OK, 2 rows affected (0.00 sec)

mysql> select * from transaction;
+-----+-----+-----+
| transactionNumber | transactionDate | customerNumber |
+-----+-----+-----+
| T-003             | 2020-08-07      | C-009          |
| T-004             | 2024-09-17      | C-007          |
+-----+-----+-----+
2 rows in set (0.00 sec)
```