

MODUL - WEEK.06

DATA MANIPULATION – Basic Queries 2

I. DESKRIPSI TEMA

Construct query of SQL that suitable with the problem

II. CAPAIAN PEMBELAJARAN MINGGUAN (SUB-CAPAIAN PEMBELAJARAN)

CLO5-SUB-CLO6: Students are able to implement SQL Data Manipulation (C3):
Simple SQL command, Sorting the query results, Date Functions, Character Functions,
Operator <, >, =, %, /

III. PENUNJANG PRAKTIKUM

1. Microsoft SQL Server management studio, SQL Server 2019
2. Module Practicum
3. These Module have been adapted from Connolly, T., & Begg, C. (2015).
Database Systems: A Practical Approach to Design, Implementation, and Management.
6th edition. Pearson Education. USA. ISBN: 978-1-292-06118-4, Chapter 6

IV. LANGKAH-LANGKAH PRAKTIKUM

1. Select, Simple Queries, Sorting

2. Syntax

Select

```
SELECT "field_name" FROM table_name
```

Where

```
SELECT "field_name"  
FROM table_name  
WHERE {condition}
```

Between

```
SELECT "field_name"  
FROM table_name  
WHERE "field_name" BETWEEN 'value1' AND 'value2'
```

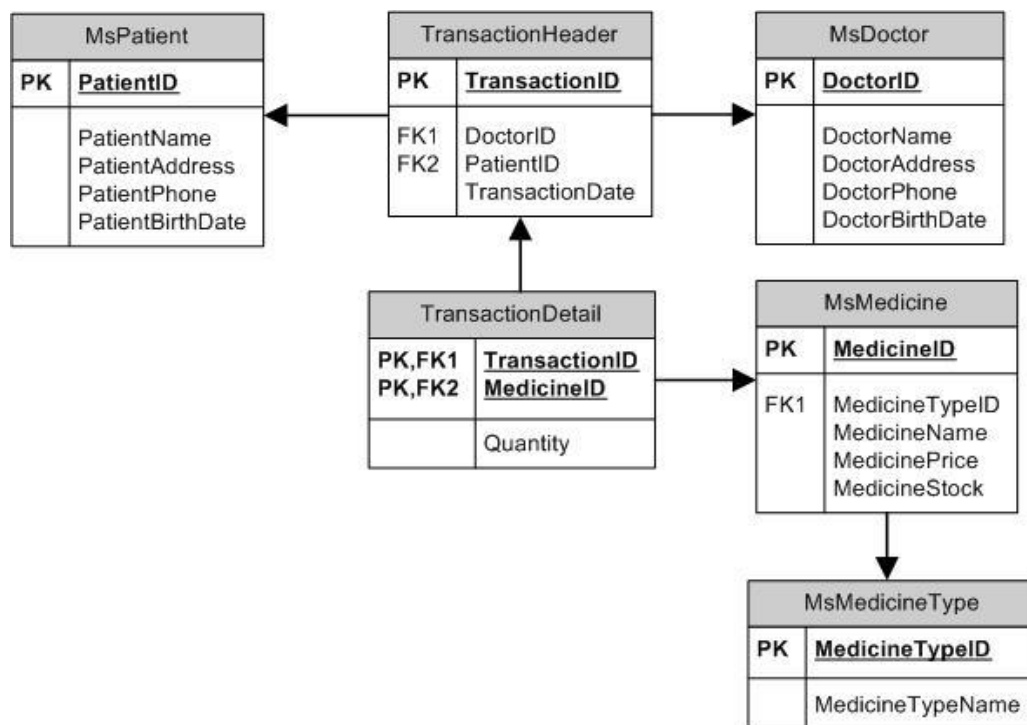
Like

```
SELECT "field_name"
FROM table_name
WHERE "field_name" LIKE {PATTERN}
```

Order by

```
SELECT "field_name"
FROM table_name
WHERE {condition}
ORDER BY "field_name" [ASC | DESC]
```

3. Relational Table



4. Assessment

- a. Tampilkan DoctorID, DoctorName, dan DoctorPhone dari tabel MsDoctor.

	DoctorID	DoctorName	DoctorPhone
1	DC001	Yogie Soesanto	+62216600123
2	DC002	Nico Natalie	+628181231345
3	DC003	Julian Wesley	+628181212
4	DC004	Mellisa Pratiwi	+6221112331
5	DC005	Indra Saswita	+62216600127
6	DC006	Franky Quo	+62816609123
7	DC007	Livia Ashianti	+62816699111
8	DC008	Yudy Pumama	+6221316623
9	DC009	Budiman	+6289991221
10	DC010	Andy Putra	+6287877991

- b. Tampilkan MedicineID, MedicineName, dan MedicinePrice dimana MedicineStock lebih besar dari 100.

	MedicineID	MedicineName	MedicinePrice
1	ME002	Aspirin	5000
2	ME005	Panadol	6000
3	ME006	Komix	2000

- c. Tampilkan PatientName dan PatientAddress dimana tahun kelahiran pasien lebih besar dari 2000.
(year)

	PatientName	PatientAddress
1	Calvin	Syahdan Street
2	Ferlim Putra	Kapuk Street
3	Andi Juardi	Google Street

- d. Tampilkan PatientID, PatientName, dan PatientPhone dimana 3 karakter pertama PatientPhone adalah '021'.
(left)

	PatientID	PatientName	PatientPhone
1	PA004	Falerian Jonathan	021921125252
2	PA005	Gradiyanto Sanjaya	02198776654
3	PA008	Andi Juardi	0219783968
4	PA010	Davin Timothy	0219780642

- e. Tampilkan TransactionID dan TransactionDate dimana bulan dari TransactionDate di antara 5 dan 7.

(month, between)

	TransactionID	TransactionDate
1	TR003	2011-07-23
2	TR004	2011-05-05
3	TR010	2011-05-01
4	TR011	2010-06-07
5	TR015	2012-07-31

- f. Tampilkan DoctorID, DoctorName, dan DoctorAddress **dimana** huruf pertama DoctorName merupakan huruf vokal (a,i,u,e,o).

(like)

	DoctorID	DoctorName	DoctorAddress
1	DC005	Indra Saswita	Sunter Street
2	DC010	Andy Putra	Angry Street Street

- g. Tampilkan PatientNumber (didapat dari PatientID dengan mengubah 'PA' menjadi 'Patient #'), PatientName, dan PatientAddress **dimana** PatientAddress terdiri dari 3 kata atau lebih.

(replace, like)

	PatientNumber	PatientName	PatientAddress
1	Patient #001	Ffilia	Hard Stone Street
2	Patient #010	Davin Timothy	Strong Horse Street

- h. Tampilkan TransactionID dan TransactionDate **dimana** 3 digit terakhir dari DoctorID yang melayani merupakan bilangan genap. Urutkan data-data tersebut berdasarkan TransactionDate secara *ascending*.

(right, order by)

	TransactionID	TransactionDate
1	TR010	2011-05-01
2	TR003	2011-07-23
3	TR001	2011-10-22
4	TR008	2012-03-02
5	TR015	2012-07-31
6	TR009	2012-09-25
7	TR007	2012-10-24

- i. Tampilkan PatientID, PatientName, PatientBirthDate, dan TransactionDate **dimana** pasien tersebut memiliki umur di bawah 17 tahun saat melakukan transaksi. Urutkan data-data tersebut berdasarkan PatientBirthDate dari pasien yang termuda.

(datediff, order by)

	PatientID	PatientName	PatientBirthDate	TransactionDate
1	PA008	Andi Juardi	2005-11-30	2008-02-29
2	PA008	Andi Juardi	2005-11-30	2010-06-07
3	PA008	Andi Juardi	2005-11-30	2006-10-27
4	PA002	Calvin	2003-12-23	2012-09-25
5	PA003	Ferlim Putra	2001-08-02	2011-07-23
6	PA003	Ferlim Putra	2001-08-02	2011-05-01
7	PA007	Junius	1998-03-03	2012-10-24

- j. Tampilkan MedicineID, MedicineName, TypeName (dengan format *uppercase*), dan MedicineStock (dengan menambahkan kata ' pcs' di akhir) **dimana** MedicineStock merupakan bilangan kelipatan 25 dan panjang karakter MedicineName kurang dari 10 karakter. Urutkan data-data tersebut berdasarkan MedicineName dari huruf terkecil.

(upper, cast, len, order by)

	MedicineID	MedicineName	TypeName	MedicineStock
1	ME002	Aspirin	TABLET	200 pcs
2	ME007	Claritin	TABLET	25 pcs
3	ME008	Decadryl	SYRUP	25 pcs
4	ME006	Komix	SYRUP	400 pcs
5	ME005	Panadol	TABLET	450 pcs

REFERENSI

Connolly, T., & Begg, C. (2015). Database Systems: A Practical Approach to Design, Implementation, and Management. 6th edition. Pearson Education. USA. ISBN: 978-1-292-06118-4, Chapter 6