

Tugas ERD

Raihan Firza F. /23 /11 RPL 2

1. Membuat database

```
mysql> create database tugaserd;
Query OK, 1 row affected (0.00 sec)

mysql>
```

2. Menggunakan database

```
mysql> use tugaserd;
Database changed
mysql> |
```

3. Membuat tabel patient dan menambahkan auto increment

```
mysql> create table patient(
->     id int not null primary key auto_increment,
->     FirstName varchar(100) not null,
->     LastName varchar(100) not null);
Query OK, 0 rows affected (0.01 sec)
```

		Diagnose			
		Code (int)	Details (Varchar)	ID-Pasien(int)	
101	Demam	101	Demam	10	
102	Leukimia	102	Leukimia	11	
103	Glukoma	103	Glukoma	12	

```
mysql> desc patient
-> ;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | NO   | PRI | NULL    | auto_increment |
| FirstName | varchar(100) | NO | | NULL    |
| LastName | varchar(100) | NO | | NULL    |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

4. Membuat tabel Doctor dan menambahkan auto increment

```
mysql> create table doctor(
->     id int not null primary key auto_increment,
->     FirstName varchar(100) not null,
->     LastName varchar(100) not null);
Query OK, 0 rows affected (0.01 sec)
```

		Diagnose			
		Code (int)	Details (Varchar)	ID-Pasien(int)	
101	Demam	101	Demam	10	
102	Leukimia	102	Leukimia	11	
103	Glukoma	103	Glukoma	12	

```
mysql> alter table doctor auto_increment=10;
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc doctor;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int  | NO   | PRI | NULL    | auto_increment |
| FirstName | varchar(100) | NO | | NULL    |
| LastName | varchar(100) | NO | | NULL    |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> |
```

5. Membuat tabel Diagnose dan menambahkan auto increment

```
mysql> create table diagnose(  
->     code int not null primary key auto_increment,  
->     details varchar(50) not null,  
->     ID_Pasien int not null);  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> desc diagnose;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| code       | int           | NO   | PRI | NULL    | auto_increment |  
| details    | varchar(50)   | NO   |     | NULL    |                |  
| ID_Pasien  | int           | NO   |     | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)  
  
mysql> alter table diagnose auto_increment=101;  
Query OK, 0 rows affected (0.01 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
mysql> |
```

6. Menambahkan foreign key ke tabel diagnose

```
mysql> alter table diagnose add foreign key(ID_Pasien) references patient(id);  
Query OK, 0 rows affected (0.03 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
mysql> desc diagnose;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| code       | int unsigned  | NO   | PRI | NULL    | auto_increment |  
| details    | varchar(50)   | NO   |     | NULL    |                |  
| ID_Pasien  | int           | NO   | MUL | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)  
  
mysql>
```

7. Membuat tabel specialization dan menambahkan auto increment

```
mysql> create table specialization(  
->     id int not null primary key auto_increment, paid  
->     deskripsi varchar(50) not null, ID_Pasien  
->     ID_Dokter int unsigned not null);  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> alter table specialization auto_increment=110;  
Query OK, 0 rows affected (0.01 sec)  
Records: 0 Duplicates: 0 Warnings: 0  
  
mysql> desc specialization;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra          |  
+-----+-----+-----+-----+-----+-----+  
| id         | int           | NO   | PRI | NULL    | auto_increment |  
| deskripsi  | varchar(50)   | NO   |     | NULL    |                |  
| ID_Dokter  | int unsigned  | NO   |     | NULL    |                |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)  
  
mysql> |
```

8. Menambahkan foreign key pada tabel specialization

```
mysql> alter table specialization add foreign key(ID_Dokter) references doctor(id);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc specialization
-> ;
+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default | Extra      |
+-----+-----+-----+-----+-----+-----+
| id         | int       | NO   | PRI | NULL    | auto_increment |
| deskripsi  | varchar(50) | NO   |     | NULL    |               |
| ID_Dokter  | int       | NO   | MUL | NULL    |               |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql>
```

9. Membuat tabel Laporan Pasien

```
mysql> create table LaporanPasien(
->     pasien_id int not null,
->     diagnose_code int not null,
->     dokter_id int not null,
->     spesialis_id int not null);
Query OK, 0 rows affected (0.02 sec)

mysql> desc laporanpasien;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| pasien_id  | int  | NO   |     | NULL    |       |
| diagnose_code | int  | NO   |     | NULL    |       |
| dokter_id  | int  | NO   |     | NULL    |       |
| spesialis_id | int  | NO   |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> |
```

10. Menambahkan foreign key pada setiap Field

```
mysql> alter table diagnose add foreign key(ID_Pasien) references patient(id);
Query OK, 0 rows affected (0.02 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table laporanpasien add foreign key(diagnose_code) references diagnose(code);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table laporanpasien add foreign key(dokter_id) references doctor(id);
Query OK, 0 rows affected (0.03 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> alter table laporanpasien add foreign key(spesialis_id) references specialization(id);
Query OK, 0 rows affected (0.05 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> desc laporanpasien;
+-----+-----+-----+-----+-----+-----+
| Field      | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| pasien_id  | int  | NO   | MUL | NULL    |       |
| diagnose_code | int  | NO   | MUL | NULL    |       |
| dokter_id  | int  | NO   | MUL | NULL    |       |
| spesialis_id | int  | NO   | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

Hasil dari struktur :

1. List Tabel

```
mysql> show tables;
+-----+
| Tables_in_tugaserd |
+-----+
| diagnose            |
| doctor              |
| laporanpasien       |
| patient             |
| specialization       |
+-----+
5 rows in set (0.00 sec)
```

2. Tabel diagnose

```
mysql> desc diagnose;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| code  | int  | NO   | PRI | NULL    | auto_increment |
| details | varchar(50) | NO | | NULL    |
| ID_Pasien | int  | NO   | MUL | NULL    |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

3. Tabel doctor

```
mysql> desc doctor;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    | auto_increment |
| FirstName | varchar(100) | NO | | NULL    |
| LastName | varchar(100) | NO | | NULL    |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

4. Tabel Laporan pasien

```
mysql> desc laporanpasien;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| pasien_id | int  | NO   | MUL | NULL    |
| diagnose_code | int  | NO   | MUL | NULL    |
| dokter_id | int  | NO   | MUL | NULL    |
| spesialis_id | int  | NO   | MUL | NULL    |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

5. Tabel patient

```
mysql> desc patient;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    | auto_increment |
| FirstName | varchar(100) | NO | | NULL    |
| LastName | varchar(100) | NO | | NULL    |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

6. Tabel specialization

```
mysql> desc specialization;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id     | int  | NO   | PRI | NULL    | auto_increment |
| deskripsi | varchar(50) | NO | | NULL    |
| ID_Dokter | int  | NO   | MUL | NULL    |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```