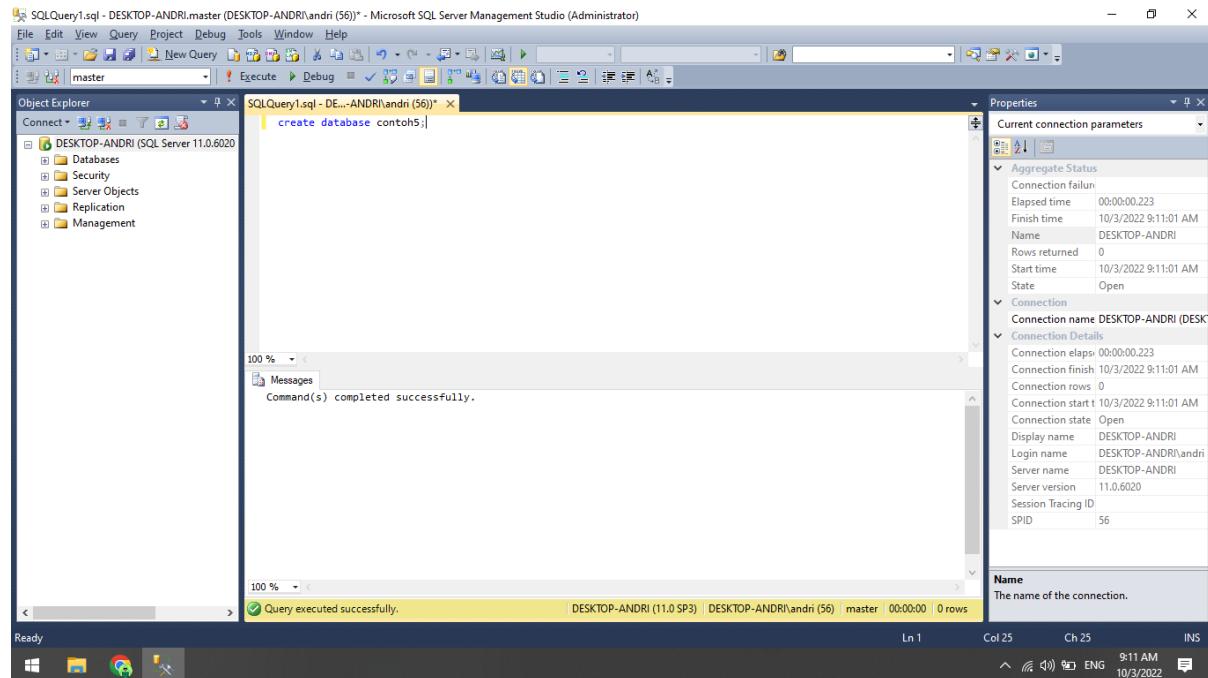


Nama : Andri Firman Saputra

NIM : 201011402125

Kelas : 05TPLP016

Tugas : Basis Data II – Latihan 5



The screenshot shows the Microsoft SQL Server Management Studio interface. A query window titled "SQLQuery1.sql - DESKTOP-ANDRI.master (DESKTOP-ANDRI\andri (56))" is open, displaying the command:

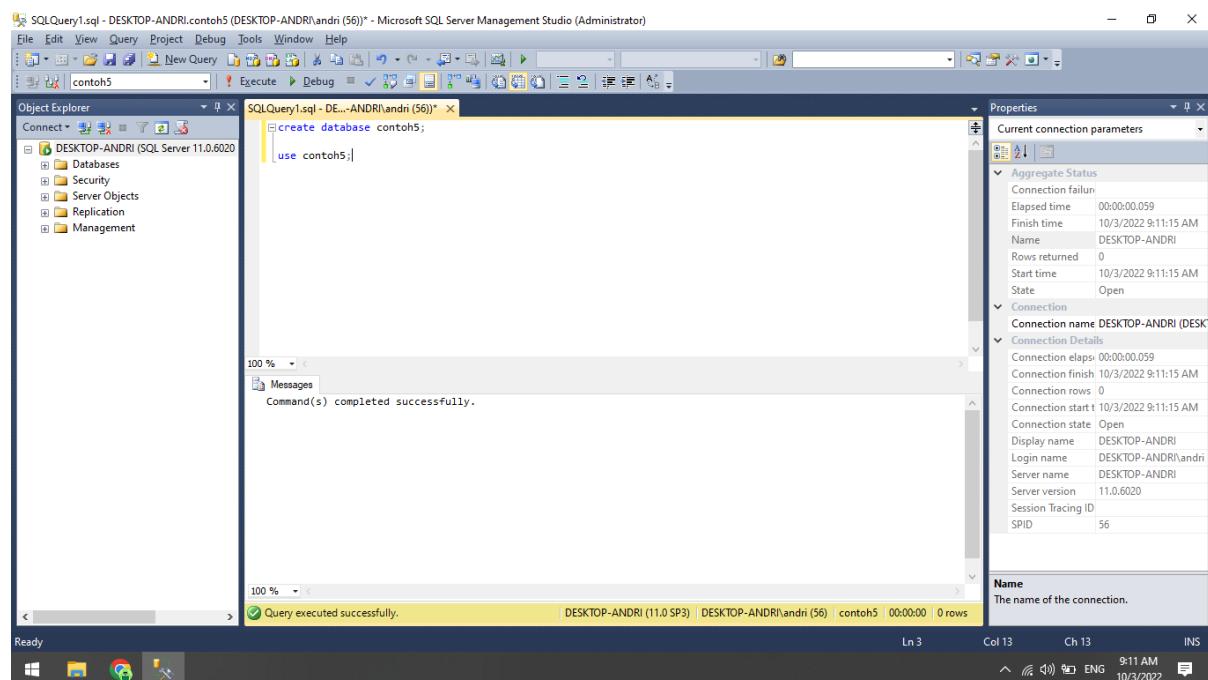
```
create database contoh5;
```

The "Messages" pane shows the output:

```
Command(s) completed successfully.
```

The "Properties" pane on the right shows connection details for the current session:

Current connection parameters	
Aggregate Status	
Connection failure	Elapsed time 00:00:00.223
Finish time 10/3/2022 9:11:01 AM	Name DESKTOP-ANDRI
Rows returned 0	Start time 10/3/2022 9:11:01 AM
State Open	
Connection	
Connection name DESKTOP-ANDRI (DESK	
Connection Details	
Connection elaps 00:00:00.223	Connection finish 10/3/2022 9:11:01 AM
Connection rows 0	Connection start t 10/3/2022 9:11:01 AM
Connection state Open	Connection version 11.0.6020
Display name DESKTOP-ANDRI	Session Tracing ID
Login name DESKTOP-ANDRI\andri	SPID 56
Server name DESKTOP-ANDRI	
Server version 11.0.6020	
Name	The name of the connection.



The screenshot shows the Microsoft SQL Server Management Studio interface. A query window titled "SQLQuery1.sql - DESKTOP-ANDRI.contoh5 (DESKTOP-ANDRI\andri (56))" is open, displaying the commands:

```
use contoh5;
```

The "Messages" pane shows the output:

```
Command(s) completed successfully.
```

The "Properties" pane on the right shows connection details for the current session:

Current connection parameters	
Aggregate Status	
Connection failure	Elapsed time 00:00:00.059
Finish time 10/3/2022 9:11:15 AM	Name DESKTOP-ANDRI
Rows returned 0	Start time 10/3/2022 9:11:15 AM
State Open	
Connection	
Connection name DESKTOP-ANDRI (DESK	
Connection Details	
Connection elaps 00:00:00.059	Connection finish 10/3/2022 9:11:15 AM
Connection rows 0	Connection start t 10/3/2022 9:11:15 AM
Connection state Open	Connection version 11.0.6020
Display name DESKTOP-ANDRI	Session Tracing ID
Login name DESKTOP-ANDRI\andri	SPID 56
Server name DESKTOP-ANDRI	
Server version 11.0.6020	
Name	The name of the connection.

SQLQuery1.sql - DESKTOP-ANDRI\andri (56) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

New Query Execute Debug A

contoh5

Object Explorer

Connect > DESKTOP-ANDRI (SQL Server 11.0.6020)

Databases Security Server Objects Replication Management

SQLQuery1.sql - DESKTOP-ANDRI\andri (56)*

```
create database contoh5;

use contoh5;

create table TblMahasiswa (nim char(10) not null,
                            nama_mhs varchar(50) not null,
                            tmpt_lahir varchar(20) not null,
                            tgl_lahir date not null,
                            jenis_kelamin char(1) not null,
                            agama varchar(10) not null,
                            alamat text not null,
                            kota varchar(15) not null,
                            kode_pos char(5) not null,
                            no_telp char(13) not null);
```

110 % Messages Command(s) completed successfully.

100 % DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ready

Ln 5 Col 1 Ch 1 INS

Properties

Current connection parameters

Aggregate Status

Connection failure

Elapsed time 00:00:00.052

Finish time 10/3/2022 9:14:52 AM

Name DESKTOP-ANDRI

Rows returned 0

Start time 10/3/2022 9:14:52 AM

State Open

Connection

Connection name DESKTOP-ANDRI (DESK)

Connection Details

Connection elaps 00:00:00.052

Connection finish 10/3/2022 9:14:52 AM

Connection rows 0

Connection start 10/3/2022 9:14:52 AM

Connection state Open

Display name DESKTOP-ANDRI

Login name DESKTOP-ANDRI\andri

Server name DESKTOP-ANDRI

Server version 11.0.6020

Session Tracing ID

SPID 56

Name The name of the connection.

INS 9:14 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

New Query Execute Debug A

contoh5

Object Explorer

Connect > DESKTOP-ANDRI (SQL Server 11.0.6020)

Databases System Databases contoh5 Database Diagrams Tables System Tables FileTables dbo.TblMahasiswa Columns Keys Constraints Triggers Indexes Statistics Views Synonyms Programmability Service Broker Storage Security Iatihan2 Iatihan4_201011402125_andri ReportServer ReportServerTempDB Security Server Objects Replication Management

Contoh5.sql - DESKTOP-ANDRI\andri (56)*

```
create database contoh5;

use contoh5;

create table TblMahasiswa (nim char(10) not null,
                            nama_mhs varchar(50) not null,
                            tmpt_lahir varchar(20) not null,
                            tgl_lahir date not null,
                            jenis_kelamin char(1) not null,
                            agama varchar(10) not null,
                            alamat text not null,
                            kota varchar(15) not null,
                            kode_pos char(5) not null,
                            no_telp char(13) not null);

insert into TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('200714014', 'Andri Firman Saputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. Amd Babakan Pocis', 'Tangerang', '15315', '087808675313');
```

91 % Messages (1 row(s) affected)

100 % DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ln 19 Col 21 Ch 21 INS

Item(s) Saved

INS 9:25 AM 10/3/2022

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'DESKTOP-ANDRI (SQL Server 11.0.6020)' with the database 'contoh5'. The menu bar includes File, Edit, View, Query, Project, Debug, Tools, Window, Help. The toolbar has various icons for file operations like New Query, Save, and Execute. The Object Explorer on the left shows the database structure, including 'Databases' (containing 'System Databases' and 'contoh5'), 'Tables' (containing 'System Tables', 'FileTables', and 'dbo.TblMahasiswa'), and other system objects like 'Views', 'Synonyms', etc. The main window displays a query editor with the following T-SQL code:

```
use contoh5;

create table TblMahasiswa (
    nim char(10) not null,
    nama_mhs varchar(50) not null,
    tmpt_lahir varchar(20) not null,
    tgl_lahir date not null,
    jenis_kelamin char(1) not null,
    agama varchar(10) not null,
    alamat text not null,
    kota varchar(15) not null,
    kode_pos char(5) not null,
    no_telp char(13) not null);

insert into TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('200714014', 'Andri Firmansaputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. AMD Babakan Pocis', 'Tangsel', '15515', '08886886531');

insert into TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140086', 'AOE CAHYADI', 'Bandung', '1987-08-17', '1', 'Islam', 'Jl. Raya Jakarta', 'Jakarta', '54321', '0888999922');
```

The status bar at the bottom shows '91%', 'Messages', '(1 row(s) affected)', 'DESKTOP-ANDRI (11.0 SP3)', 'DESKTOP-ANDRI\andri (56)', 'contoh5', '00:00:00', '0 rows', 'Ln 22', 'Col 47', 'Ch 38', 'INS', '9:28 AM', '10/3/2022', and 'ENG'.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'Contoh5.sql - DESKTOP-ANDRI.contoh5 (DESKTOP-ANDRI\andri (56))' as an administrator. The menu bar includes File, Edit, View, Query, Project, Debug, Tools, Window, Help. The toolbar has various icons for file operations like New Query, Execute, Save, and Undo.

The Object Explorer on the left shows the database structure for 'DESKTOP-ANDRI (SQL Server 11.0.6020)'. It lists Databases, Tables, Views, Synonyms, Programmability, Storage, Security, and Server Objects. A specific table named 'TblMahasiswa' is selected under Tables.

The main pane displays the following SQL script:

```
create table TblMahasiswa (nim char(10) not null,
                            nama_mhs varchar(50) not null,
                            tmt_lahir varchar(20) not null,
                            tgl_lahir date not null,
                            jenis_kelamin char(1) not null,
                            agama varchar(10) not null,
                            alamat text not null,
                            kota varchar(15) not null,
                            kode_pos char(5) not null,
                            no_telp char(13) not null);

insert into TblMahasiswa (nim, nama_mhs, tmt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('200714014', 'Andri Firman Saputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. AMD Babakan Pocis', 'Tangsel', '15315', '087808675313');

insert into TblMahasiswa (nim, nama_mhs, tmt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140086', 'ADE CAHYADT', 'Bandung', '1987-08-17', '1', 'Islam', 'Jl. Raya Jakarta', 'Jakarta', '154321', '0888999922');

insert into TblMahasiswa (nim, nama_mhs, tmt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140156', 'ARIZONA RH', 'Surabaya', '1985-02-10', '1', 'Islam', 'Jl. Perumnas 1 No. 11', 'Tangerang', '21211', '0818787212');
```

The status bar at the bottom shows 'Query executed successfully.' and the execution time '10/3/2022 9:30 AM'. The bottom right corner shows the SSMS status bar with 'Ln 24', 'Col 1', 'Ch 1', 'INS', and '9:30 AM 10/3/2022'.

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

File Edit View Query Project Debug Tools Window Help
New Query Execute Debug A... A...
Object Explorer
Connect + Contoh5
DESKTOP-ANDRI SQL Server 11.0.6020
Database
System Databases
contoh5
Database Diagrams
Tables
System Tables
FileTables
dbo.TblMahasiswa
Columns
Keys
Constraints
Triggers
Indexes
Statistics
Views
Synonyms
Programmability
Service Broker
Storage
Security
latihan2
latihan4_201011402125_andri
ReportServer
ReportServerTempDB
Security
Server Objects
Replication
Management

```

Contoh5.sql - DESKTOP-ANDRI\andri (56)*

```

CREATE TABLE TblMahasiswa (
    nim int PRIMARY KEY,
    nama_mhs nvarchar(20) NOT NULL,
    tmpt_lahir varchar(20) NOT NULL,
    tgl_lahir date NOT NULL,
    jenis_kelamin char(1) NOT NULL,
    agama varchar(10) NOT NULL,
    alamat text NOT NULL,
    kota varchar(15) NOT NULL,
    kode_pos char(5) NOT NULL,
    no_telp char(13) NOT NULL
);

INSERT INTO TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
VALUES ('200714014', 'Andri Firmansaputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. AMD Babakan Pocis', 'Tangsel', '15315', '087808675313');

INSERT INTO TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
VALUES ('2007140086', 'ADE CAHYADI', 'Bandung', '1987-08-17', '1', 'Islam', 'Jl. Raya Jakarta', 'Jakarta', '54321', '0888999922');

INSERT INTO TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
VALUES ('2007140156', 'ARIZONA RH', 'Surabaya', '1985-02-10', '1', 'Islam', 'Jl. Perumnas 1 No. 11', 'Tangerang', '21211', '0818787212');

SELECT * FROM TblMahasiswa;

```

Results Messages

nim	nama_mhs	tmpt_lahir	tgl_lahir	jenis_kelamin	agama	alamat	kota	kode_pos	no_telp	
1	200714014	Andri Firmansaputra	Jakarta	2002-01-29	I	Islam	Jl. AMD Babakan Pocis	Tangsel	15315	087808675313
2	2007140086	ADE CAHYADI	Bandung	1987-08-17	I	Islam	Jl. Raya Jakarta	Jakarta	54321	0888999922
3	2007140156	ARIZONA RH	Surabaya	1985-02-10	I	Islam	Jl. Perumnas 1 No. 11	Tangerang	21211	0818787212

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 3 rows

Ln 28 Col 1 Ch 1 INS

9:30 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

File Edit View Query Project Debug Tools Window Help
New Query Execute Debug A... A...
Object Explorer
Connect + Contoh5
DESKTOP-ANDRI SQL Server 11.0.6020
Database
System Databases
contoh5
Database Diagrams
Tables
System Tables
FileTables
dbo.TblMahasiswa
Columns
Keys
Constraints
Triggers
Indexes
Statistics
Views
Synonyms
Programmability
Service Broker
Storage
Security
latihan2
latihan4_201011402125_andri
ReportServer
ReportServerTempDB
Security
Server Objects
Replication
Management

```

Contoh5.sql - DESKTOP-ANDRI\andri (56)*

```

CREATE TABLE TblMahasiswa (
    nim int PRIMARY KEY,
    nama_mhs nvarchar(20) NOT NULL,
    tmpt_lahir varchar(20) NOT NULL,
    tgl_lahir date NOT NULL,
    jenis_kelamin char(1) NOT NULL,
    agama varchar(10) NOT NULL,
    alamat text NOT NULL,
    kota varchar(15) NOT NULL,
    kode_pos char(5) NOT NULL,
    no_telp char(13) NOT NULL
);

INSERT INTO TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
VALUES ('200714014', 'Andri Firmansaputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. AMD Babakan Pocis', 'Tangsel', '15315', '087808675313');

INSERT INTO TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
VALUES ('2007140086', 'ADE CAHYADI', 'Bandung', '1987-08-17', '1', 'Islam', 'Jl. Raya Jakarta', 'Jakarta', '54321', '0888999922');

INSERT INTO TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
VALUES ('2007140156', 'ARIZONA RH', 'Surabaya', '1985-02-10', '1', 'Islam', 'Jl. Perumnas 1 No. 11', 'Tangerang', '21211', '0818787212');

SELECT * FROM TblMahasiswa;

```

Results Messages

nim	nama_mhs	tmpt_lahir	tgl_lahir	jenis_kelamin	agama	alamat	kota	kode_pos	no_telp	
1	200714014	Andri Firmansaputra	Jakarta	2002-01-29	I	Islam	Jl. AMD Babakan Pocis	Tangsel	15315	087808675313
2	2007140086	ADE CAHYADI	Bandung	1987-08-17	I	Islam	Jl. Raya Jakarta	Jakarta	54321	0888999922
3	2007140156	ARIZONA RH	Surabaya	1985-02-10	I	Islam	Jl. Perumnas 1 No. 11	Tangerang	21211	0818787212

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 3 rows

Ln 30 Col 1 Ch 1 INS

9:34 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer
Connect > DESKTOP-ANDRI SQL Server 11.0.6020
  Database
    System Databases
      contoh5
        Database Diagrams
          Tables
            System Tables
            FileTables
            dbo.TblMahasiswa
              Columns
              Keys
              Constraints
              Triggers
              Indexes
              Statistics
            Views
            Synonyms
            Programmability
            Service Broker
            Storage
            Security
            Iatihan2
            Iatihan4_201011402125_andri
            ReportServer
            ReportServerTempDB
          Security
          Server Objects
          Replication
          Management
        < > Matches: ( 91% )
```

Contoh5.sql - DESKTOP-ANDRI\andri (56)*

```

CREATE TABLE TblMahasiswa
(
    nim int primary key,
    nama_mhs nvarchar(50) not null,
    tmpat_lahir varchar(50) not null,
    tgl_lahir date not null,
    jenis_kelamin char(1) not null,
    agama varchar(10) not null,
    alamat text not null,
    kota varchar(15) not null,
    kode_pos char(5) not null,
    no_telp char(13) not null;
)

insert into TblMahasiswa (nim, nama_mhs, tmpat_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('200714014', 'Andri Firman Saputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. AWD Babakan Pociis', 'Tangsel', '15315', '087808675313');

insert into TblMahasiswa (nim, nama_mhs, tmpat_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140086', 'ADE CAHYADI', 'Bandung', '1987-08-17', '1', 'Islam', 'Jl. Raya Jakarta', 'Jakarta', '54321', '0888999922');

insert into TblMahasiswa (nim, nama_mhs, tmpat_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140156', 'ARIZONA RH', 'Surabaya', '1985-02-10', '1', 'Islam', 'Jl. Perumnas 1 No. 11', 'Tangerang', '21211', '0818787212');

select * from TblMahasiswa;
```

update TblMahasiswa set alamat = 'Jl. Jakarta 41 bulungan' where nim = '200714014';

(1 row(s) affected)

91% Messages

100 % Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ln 29 Col 1 Ch 1 INS

^ (4) ENG 9:35 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer
Connect > DESKTOP-ANDRI SQL Server 11.0.6020
  Database
    System Databases
      contoh5
        Database Diagrams
          Tables
            System Tables
            FileTables
            dbo.TblMahasiswa
              Columns
              Keys
              Constraints
              Triggers
              Indexes
              Statistics
            Views
            Synonyms
            Programmability
            Service Broker
            Storage
            Security
            Iatihan2
            Iatihan4_201011402125_andri
            ReportServer
            ReportServerTempDB
          Security
          Server Objects
          Replication
          Management
        < > Matches: ( 91% )
```

Contoh5.sql - DESKTOP-ANDRI\andri (56)*

```

CREATE TABLE TblMahasiswa
(
    nim int primary key,
    nama_mhs nvarchar(50) not null,
    tmpat_lahir varchar(50) not null,
    tgl_lahir date not null,
    jenis_kelamin char(1) not null,
    agama varchar(10) not null,
    alamat text not null,
    kota varchar(15) not null,
    kode_pos char(5) not null,
    no_telp char(13) not null;
)

insert into TblMahasiswa (nim, nama_mhs, tmpat_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('200714014', 'Andri Firman Saputra', 'Jakarta', '2002-01-29', '1', 'Islam', 'Jl. AWD Babakan Pociis', 'Tangsel', '15315', '087808675313');

insert into TblMahasiswa (nim, nama_mhs, tmpat_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140086', 'ADE CAHYADI', 'Bandung', '1987-08-17', '1', 'Islam', 'Jl. Raya Jakarta', 'Jakarta', '54321', '0888999922');

insert into TblMahasiswa (nim, nama_mhs, tmpat_lahir, tgl_lahir, jenis_kelamin, agama, alamat, kota, kode_pos, no_telp)
values ('2007140156', 'ARIZONA RH', 'Surabaya', '1985-02-10', '1', 'Islam', 'Jl. Perumnas 1 No. 11', 'Tangerang', '21211', '0818787212');

select * from TblMahasiswa;
```

update TblMahasiswa set alamat = 'Jl. Jakarta 41 bulungan' where nim = '200714014';

select * from TblMahasiswa;

Results Messages

nim	nama_mhs	tmpat_lahir	tgl_lahir	jenis_kelamin	agama	alamat	kota	kode_pos	no_telp	
1	200714014	Andri Firman Saputra	Jakarta	2002-01-29	I	Islam	J. Jakarta 41 bulungan	Tangsel	15315	087808675313
2	2007140086	ADE CAHYADI	Bandung	1987-08-17	I	Islam	J. Raya Jakarta	Jakarta	54321	0888999922
3	2007140156	ARIZONA RH	Surabaya	1985-02-10	I	Islam	Jl. Perumnas 1 No. 11	Tangerang	21211	0818787212

91% Results

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 3 rows

Ln 31 Col 1 Ch 1 INS

^ (4) ENG 9:35 AM 10/3/2022

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "Contoh5.sql - DESKTOP-ANDRI.contoh5 (DESKTOP-ANDRI\andri (56)) - Microsoft SQL Server Management Studio (Administrator)". The menu bar includes File, Edit, View, Query, Project, Debug, Tools, Window, Help. The toolbar has various icons for file operations, queries, and database management. The Object Explorer on the left shows the database structure under "DESKTOP-ANDRI (SQL Server 11.0.6020)". The "Tables" node is expanded, showing "System Tables", "FileTables", "dbo.TblMahasiswa" (with columns like nim, alamat, etc.), and other table-related objects. The main query editor window contains the following T-SQL code:

```
update TblMahasiswa set alamat = 'Jl. Jakarta 41 bulungan' where nim = '200714014';

select * from TblMahasiswa;

delete from TblMahasiswa where nim = '200714014';

select * from TblMahasiswa;

CREATE TABLE TblDosen(
    NoDos nchar(3) Not Null,
    NamaDos nchar(35) Not Null,
    TmpLahir nchar(25) Not Null,
    TglLahir datetime Not Null,
    Jkelamin nchar(1) Not Null,
    Agama nchar(10) Not Null,
    Alamat nchar(100) Null,
    Kota nchar(25) Null,
    Kodepos nchar(5) Null,
    Gajipokok money Not Null,
    CONSTRAINT PK_Dosen Primary key (NoDos)
);
```

The status bar at the bottom shows "Query executed successfully.", "DESKTOP-ANDRI (11.0 SP3)", "DESKTOP-ANDRI\andri (56)", "contoh5", "00:00:00", "0 rows", "Ln 37", "Col 1", "Ch 1", "INS", "9:38 AM", "10/3/2022", and "ENG".

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'Contoh5.sql - DESKTOP-ANDRI\andri (56)' on 'Microsoft SQL Server Management Studio (Administrator)'. The left pane, 'Object Explorer', shows the database structure for 'contoh5'. The right pane, 'Query Editor', displays T-SQL code for creating two tables: 'TblMahasiswa' and 'TblMataKuliah'. The 'Messages' pane at the bottom shows the message 'Command(s) completed successfully.'.

```
NoDOS nchar(3) Not Null,
NamaBOS nchar(35) Not Null,
TmtPilih nchar(25) Not Null,
TglLahir date Not Null,
Jkkelamin nchar(1) Not Null,
Agama nchar(10) Not Null,
Alamat nchar(100) Not Null,
Kota nchar(25) Not Null,
KodePos nchar(5) Null,
GajiPokok money Not Null,
CONSTRAINT PK_Dosen Primary key (NoDOS)

);
CREATE TABLE TblMataKuliah(
KodeMK nchar(5) Not Null,
NamaMK nchar(35) Not Null,
SKS int Not Null,
Semester nchar(1) Not Null,
CONSTRAINT PK_MataKuliah Primary key (KodeMK)
);
```

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```
Object Explorer
Connect > contoh5
  Database
    System Databases
      contoh5
        Database Diagrams
          Tables
            System Tables
              FileTables
                dbo.TblMahasiswa
                  Columns
                  Keys
                  Constraints
                  Triggers
                  Indexes
                  Statistics
                Views
                Synonyms
                Programmability
                Service Broker
                Storage
                Security
                Iatihan2
                Iatihan4_201011402125_andri
                ReportServer
                ReportServerTempDB
              Security
              Server Objects
              Replication
              Management
```

Contoh5.sql* x

```
GajiPokok money Not Null,
CONSTRAINT PK_Dosen Primary key (NoDos)
);

CREATE TABLE TblMatakuliah(
KodeMK nchar(5) Not Null,
NamaMK nchar(35) Not Null,
SKS int Not Null,
Semester nchar(1) Not Null,
CONSTRAINT PK_Matakuliah Primary key (KodeMK)
);

CREATE TABLE TblJurusan(
KodeJur nchar(3) Not Null,
NamaJur nchar(35) Not Null,
Jenjang nchar(2) Not Null,
KaJur nchar(35) Not Null,
CONSTRAINT PK_Jurusan Primary key (KodeJur)
);
```

91% Messages

Command(s) completed successfully.

100 %

Query executed successfully. | DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ln 62 Col 1 Ch 1 INS

Matches: ()

Windows Start Task View Taskbar

9:39 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```
Object Explorer
Connect > contoh5
  Database
    System Databases
      contoh5
        Database Diagrams
          Tables
            System Tables
              FileTables
                dbo.TblMahasiswa
                  Columns
                  Keys
                  Constraints
                  Triggers
                  Indexes
                  Statistics
                Views
                Synonyms
                Programmability
                Service Broker
                Storage
                Security
                Iatihan2
                Iatihan4_201011402125_andri
                ReportServer
                ReportServerTempDB
              Security
              Server Objects
              Replication
              Management
```

Contoh5.sql* x

```
);

CREATE TABLE TblMengajar(
ThnAkademik nchar(4) Not Null,
Semester nchar(1) Not Null,
KodeMK nchar(5) Not Null,
NoDos nchar(3) Not Null,
Hari nchar(6) Not Null,
JamKe nchar(1) Not Null,
Kelas nchar(3) Not Null,
KodeJur nchar(3) Not Null,
CONSTRAINT PK_Mengajar Primary key (ThnAkademik, Semester,
KodeMK, NoDos, Hari, JamKe, KodeJur))
```

91% Messages

Command(s) completed successfully.

100 %

Query executed successfully. | DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ln 69 Col 1 Ch 1 INS

Matches: ()

Windows Start Task View Taskbar

9:40 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

New Query Execute Debug A

contoh5

Object Explorer

Connect + DESKTOP-ANDRI\SQL Server 11.0.60 ^

Databases

System Databases

contoh5

Database Diagrams

Tables

System Tables

FileTables

dbo.TbIDosen

dbo.TblIurusan

dbo.TblMahasiswa

dbo.TblMatakuliah

dbo.TblMengajar

Columns

ThnAkademik
Semester (PK, nchar(4)) Not Null,
KodeMK (PK, nchar(5)) Not Null,
NoDOS (PK, nchar(3)) Not Null,
Hari (PK, nchar(6)) Not Null,
JamKe (PK, nchar(1)) Not Null,
Kelas (nchar(3)) Not Null,
KodeJrn (nchar(3)) Not Null,

Keys

Constraints

Triggers

Indexes

Statistics

Views

Synonyms

Programmability

CREATE TABLE TblMengajar

ThnAkademik nchar(4) Not Null,
Semester nchar(1) Not Null,
KodeMK nchar(5) Not Null,
NoDOS nchar(3) Not Null,
Hari nchar(6) Not Null,
JamKe nchar(1) Not Null,
Kelas nchar(3) Not Null,
KodeJrn nchar(3) Not Null,

CONSTRAINT PK_Mengajar Primary key (ThnAkademik);

91 %

Messages

Command(s) completed successfully.

100 %

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ln 69 Col 1 Ch 1 INS

9:42 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\contoh5 (DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

New Query Execute Debug A

contoh5

Object Explorer

Connect + DESKTOP-ANDRI\SQL Server 11.0.60 ^

Databases

System Databases

contoh5

Database Diagrams

Tables

System Tables

FileTables

dbo.TbIDosen

dbo.TblIurusan

dbo.TblMahasiswa

dbo.TblMatakuliah

dbo.TblMengajar

Columns

ThnAkademik
Semester (PK, nchar(4)) Not Null,
KodeMK (PK, nchar(5)) Not Null,
NoDOS (PK, nchar(3)) Not Null,
Hari (PK, nchar(6)) Not Null,
JamKe (PK, nchar(1)) Not Null,
Kelas (nchar(3)) Not Null,
KodeJrn (nchar(3)) Not Null;

Keys

Constraints

Triggers

Indexes

Statistics

Views

Synonyms

Programmability

CREATE TABLE TblMengajar

ThnAkademik nchar(4) Not Null,
Semester nchar(1) Not Null,
KodeMK nchar(5) Not Null,
NoDOS nchar(3) Not Null,
Hari nchar(6) Not Null,
JamKe nchar(1) Not Null,
Kelas nchar(3) Not Null,
KodeJrn nchar(3) Not Null;

CONSTRAINT PK_Mengajar Primary key (ThnAkademik);

ALTER TABLE TblMengajar

ADD CONSTRAINT FK_Dosen Foreign Key (NoDOS)

REFERENCES TbIDosen(NoDOS)

91 %

Messages

Command(s) completed successfully.

100 %

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ln 81 Col 1 Ch 1 INS

9:46 AM 10/3/2022

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'DESKTOP-ANDRI\andri (56)'. The 'Tables' node under 'dbo' contains 'TblDosen', 'TblJurusan', 'TblMahasiswa', 'TblMatakuliah', and 'TblMengajar'. The 'Columns' node for 'TblMengajar' lists columns: ThnAkademik (nchar(4)), Semester (nchar(1)), KodeMK (PK, nchar(5)), NoDos (PK, nchar(3)), Hari (PK, nchar(6)), JamKe (PK, nchar(1)), Kelas (nchar(3)), and KodeJur (nchar(3)). The 'Script' tab in the center shows the T-SQL code for creating the table and adding foreign key constraints:

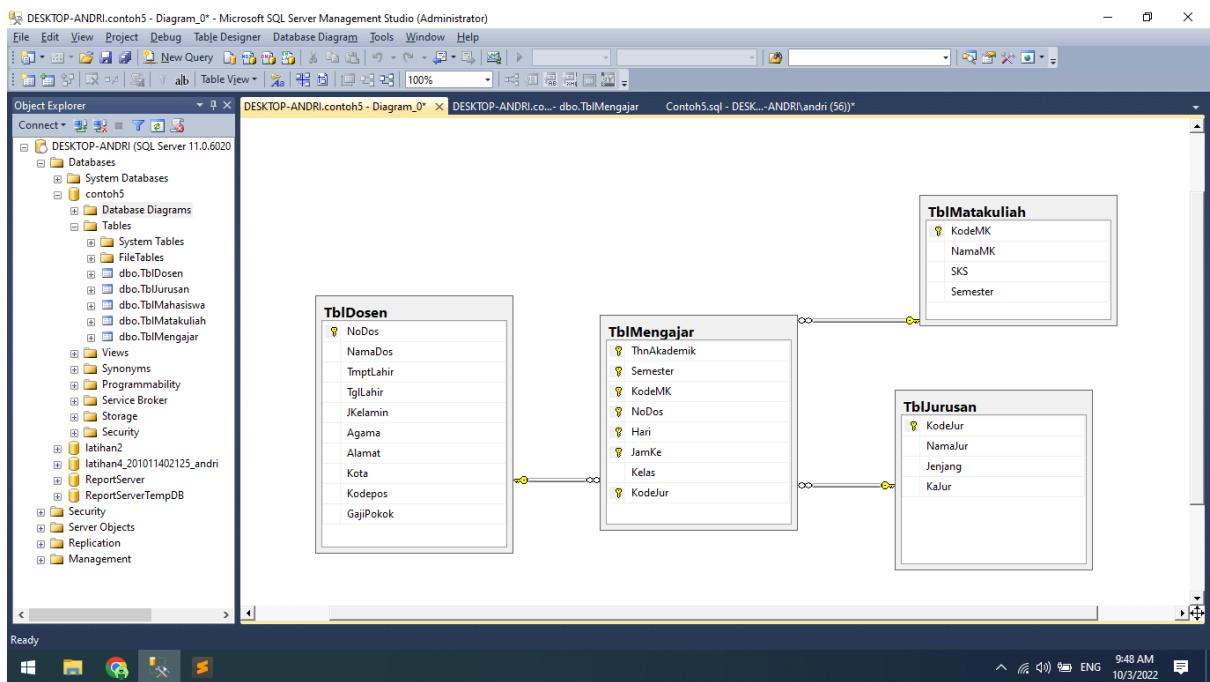
```
CREATE TABLE TblMengajar(
    ThnAkademik nchar(4) Not Null,
    Semester nchar(1) Not Null,
    KodeMK nchar(5) Not Null,
    NoDos nchar(3) Not Null,
    Hari nchar(6) Not Null,
    JamKe nchar(1) Not Null,
    Kelas nchar(3) Not Null,
    KodeJur nchar(3) Not Null,
    CONSTRAINT PK_Mengajar Primary key (ThnAkademik));

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Dosen Foreign Key (NoDos)
REFERENCES TblDosen(NoDos);

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Matakuliah Foreign Key (KodeMK)
REFERENCES TblMatakuliah(KodeMK);
```

The 'Messages' pane at the bottom right shows the message: 'Command(s) completed successfully.'

This screenshot shows the same Microsoft SQL Server Management Studio interface, but with different column definitions for the 'TblMengajar' table. The 'Columns' node for 'TblMengajar' now lists columns: ThnAkademik (nchar(4)), Semester (PK, nchar(1)), KodeMK (PK, nchar(5)), NoDos (PK, nchar(3)), Hari (PK, nchar(6)), JamKe (PK, nchar(1)), Kelas (nchar(3)), and KodeJur (nchar(3)). The T-SQL code in the 'Script' tab remains the same as in the previous screenshot.



Contoh5.sql - DESKEİTOP-ANDRİ.contoh5 (DESKETOP-ANDRİ\andri (56)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

New Query

Execute

Object Explorer

Connect

DESKTOP-ANDRİ (SQL Server 11.0.6020)

Databases

contoh5

Tables

System Tables

FileTables

dbo.TblDosen

dbo.TblJurusan

dbo.TblMahasiswa

dbo.TblMatakuliah

dbo.TblMengajar

Views

Synonyms

Programmability

Service Broker

Storage

Security

Iatihan2

Iatihan4_201011402125_andri

ReportServer

ReportServerTempDB

Security

Server Objects

Replication

Management

Object Explorer

Connect

DESKTOP-ANDRİ (SQL Server 11.0.6020)

Databases

contoh5

Tables

System Tables

FileTables

dbo.TblDosen

dbo.TblMengajar

dbo.TblMatakuliah

dbo.TblMahasiswa

dbo.TblJurusan

Views

Synonyms

Programmability

Service Broker

Storage

Security

Iatihan2

Iatihan4_201011402125_andri

ReportServer

ReportServerTempDB

Security

Server Objects

Replication

Management

TblDosen

NoDOS
NamaDOS
TmplLahir
TglLahir
Jkelamin
Agama
Alamat
Kota
Kodepos
GajiPokok

TblMengajar

ThnAkademik
Semester
KodeMK
NoDOS
Hari
JamKe
Kelas
KodeJur

TblMatakuliah

KodeMK
NamaMK
SKS
Semester

TblJurusan

KodeJur
NamaJur
Jenjang
Kajur

```

CONSTRAINT PK_Mengajar Primary key (ThnAkademik);

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Dosen Foreign Key (NoDOS)
REFERENCES TblDosen(NoDOS)

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Matakuliah Foreign Key (KodeMK)
REFERENCES TblMatakuliah(KodeMK)

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Jurusan Foreign Key (KodeJur)
REFERENCES TblJurusan(kodeJur)

INSERT INTO TblDosen
VALUES('269','ALHAAD BISRI','Jakarta','1988-01-01',
'L',Islam,'Jl. Rayu Jakarta',Jakarta,
'12345','5000000')

```

91% 100 %

Messages

(1 row(s) affected)

100 %

Query executed successfully.

Ln 93 Col 1 Ch 1 INS

9:49 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Jurusan Foreign Key (KodeJur)
REFERENCES TblJurusan(KodeJur)

INSERT INTO TblDosen
(NoDos, NamaDos, TmpLahir, TglLahir, JKelamin, Agama, Alamat,
Kota, KodePos, Gaipokok)
VALUES('269', 'ACHMAO BISRI', 'Jakarta', '1988-01-01',
'L', 'Islam', 'Jl. Raya Jakarta', 'Jakarta',
'12345', '5000000')

INSERT INTO TblDosen
(NoDos, NamaDos, TmpLahir, TglLahir, JKelamin, Agama, Alamat,
Kota, KodePos, Gaipokok)
VALUES('270', 'ACHMAO UDIN ZABLANI', 'Jakarta', '1988-02-02',
'L', 'Islam', 'Jl. Raya Pamulang', 'Jakarta',
'12312', '3000000')

INSERT INTO TblDosen
(NoDos, NamaDos, TmpLahir, TglLahir, JKelamin, Agama, Alamat,
Kota, KodePos, Gaipokok)
VALUES('271', 'BUDI', 'Bandung', '1975-05-02', 'L', 'Islam',
'Jl. Raya Tangerang', 'Tangerang', '34211', '4500000')

```

91% Messages

(1 row(s) affected)
(1 row(s) affected)
(1 row(s) affected)

100% LN 109 Col 53 Ch 53 INS

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Matches: (9:49 AM 10/3/2022)

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF105', 'Sistem Digital', '2', '1')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF201', 'Komunikasi Data', '3', '2')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF202', 'Struktur Data', '4', '2')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF203', 'Matematika Diskrit', '2', '2')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF204', 'Jaringan Komputer', '2', '2')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF205', 'Sistem Operasi', '2', '2')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF101', 'Pengantar Teknologi Informasi', '2', '1')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF102', 'Pengantar Aplikasi Komputer', '2', '1')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF103', 'Algoritma dan Pemrograman', '4', '1')
INSERT INTO TblMatkuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF104', 'Fisika Dasar', '2', '1')

```

91% Messages

(1 row(s) affected)
(1 row(s) affected)
(1 row(s) affected)
(1 row(s) affected)

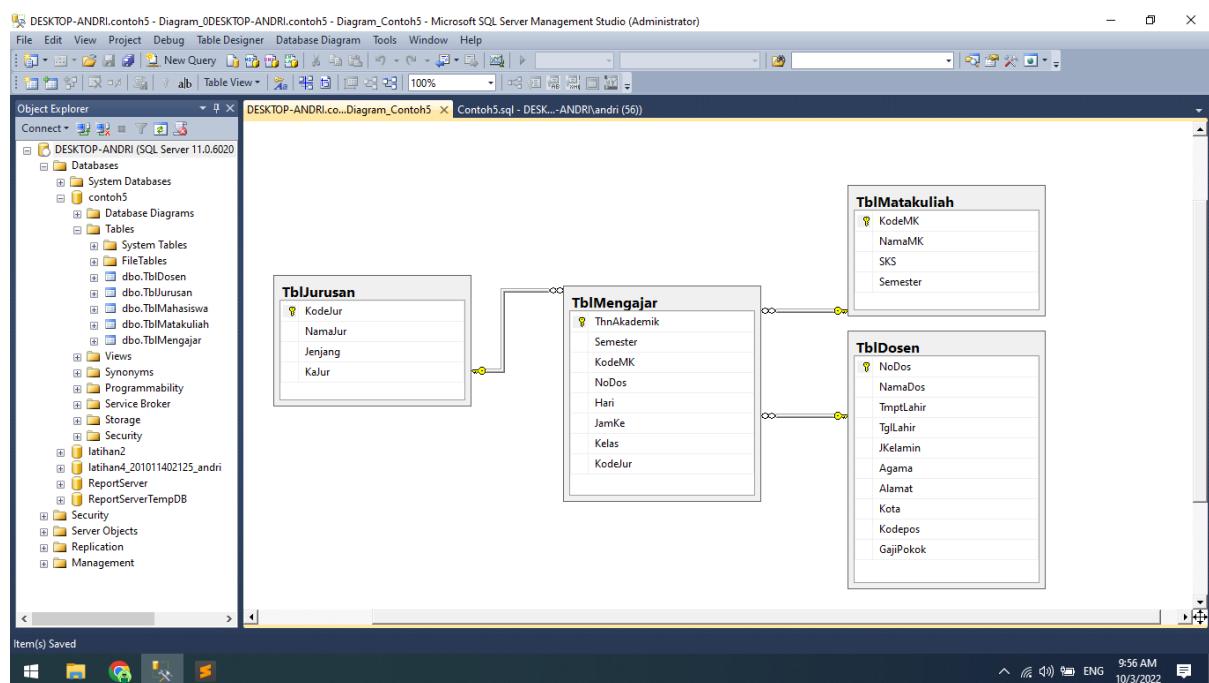
100% LN 131 Col 1 Ch 1 INS

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Matches: (9:51 AM 10/3/2022)

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar reads "Contoh5.sql - DESKTOP-ANDRI.contoh5 (DESKTOP-ANDRI\andri (56)) - Microsoft SQL Server Management Studio (Administrator)". The Object Explorer sidebar on the left lists the database structure, including 'DESKTOP-ANDRI (SQL Server 11.0.6020)' under 'Databases', and various tables like 'TblMatakuliah', 'TblJurusan', etc. The main pane displays a T-SQL script for inserting data into these tables. The status bar at the bottom indicates "Query executed successfully." and shows the execution time as "00:00:00" and "0 rows".

```
INSERT INTO TblMatakuliah  
VALUES('IF102','Pengantar Aplikasi Komputer','2','1')  
INSERT INTO TblMatakuliah  
VALUES('IF103','Algoritma dan Pemrograman','4','1')  
INSERT INTO TblMatakuliah  
VALUES('IF104','Fisika Dasar','2','1')  
  
INSERT INTO TblJurusan  
VALUES('IF1','Teknik Informatika','S1',  
'Ir. Atang Susila, M.Eng.')  
INSERT INTO TblJurusan  
VALUES('IF2','Sistem Informasi','S1','Achmad Bisri, S.Kom.')  
INSERT INTO TblJurusan  
VALUES('IF3','Manajemen Informatika','D3',  
'Achmad Udin Zaelani, S.Kom')
```



The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists the database 'contoh5' under 'DESKTOP-ANDRI\SQL Server 11.0.6020'. The 'Tables' node contains 'TblJurusan' and 'TblMengajar'. The 'Script' tab in the ribbon is selected. The main pane displays the following SQL code:

```
CREATE TABLE TblJurusan(
    KodeJur nchar(3) Not Null,
    NamaJur nchar(35) Not Null,
    Jenjang nchar(2) Not Null,
    Kajur nchar(35) Not Null,
    CONSTRAINT PK_Jurusan Primary key (KodeJur)
);

CREATE TABLE TblMengajar(
    idMengajar int,
    ThnAkademik nchar(4) Not Null,
    Semester nchar(1) Not Null,
    KodeMK nchar(5) Not Null,
    Nobos nchar(3) Not Null,
    Hari nchar(6) Not Null,
    JamKe nchar(1) Not Null,
    Kelas nchar(3) Not Null,
    KodeJur nchar(3) Not Null,
    CONSTRAINT PK_Mengajar Primary key (idMengajar);

```

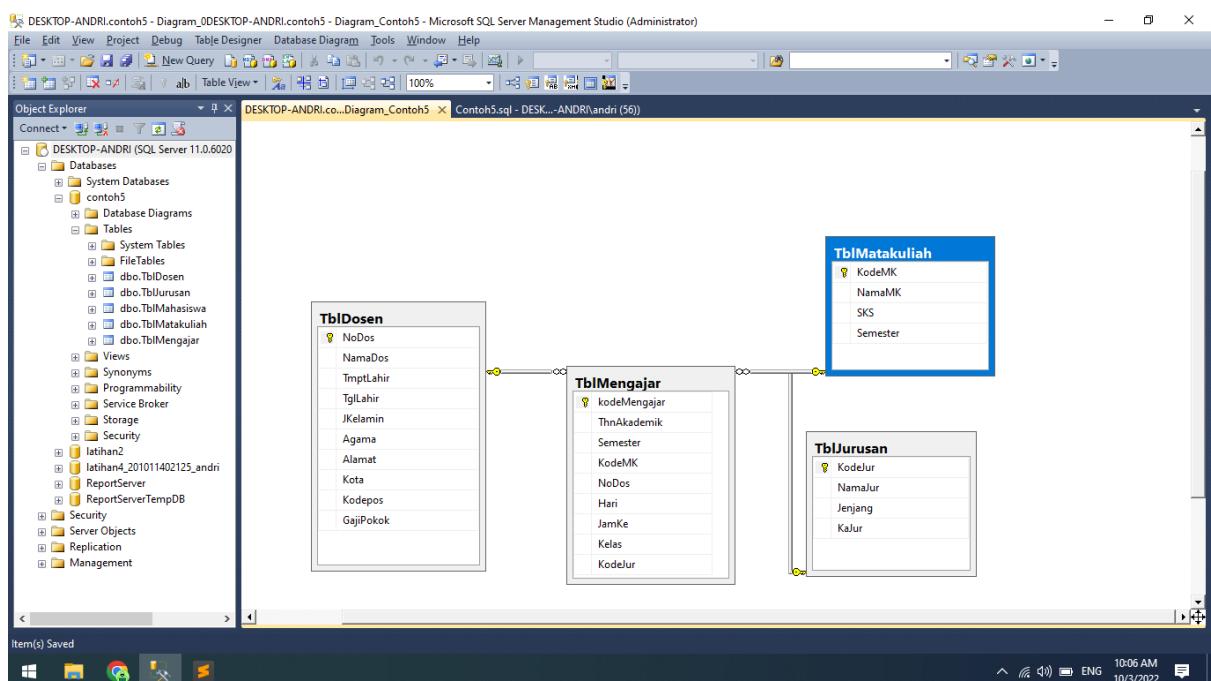
The 'Messages' pane at the bottom shows the message: 'Command(s) completed successfully.'

This screenshot is identical to the one above, showing the Microsoft SQL Server Management Studio interface with the same database structure and SQL code. The 'Messages' pane again shows 'Command(s) completed successfully.'

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

File Edit View Query Project Debug Tools Window Help
New Query Execute Debug A
Object Explorer Connect > contoh5 DESKTOP-ANDRI\co...Diagram_Contoh5 Contoh5.sql - DESKTOP-ANDRI\andri (56)*
Connect > contoh5 Database Diagrams Tables System Tables FileTables dbo.TblDosen dbo.TblJurusan dbo.TblMahasiswa dbo.TblMatakuliah dbo.TblMengajar Views Synonyms Programmability Service Broker Storage Security Server Objects Replication Management
100 %
Messages
Command(s) completed successfully.
100 % DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows
100 %
Query executed successfully.
LN 70 Col 1 Ch 1 INS
10:04 AM 10/3/2022
Matches: 
```



Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

File Edit View Query Project Debug Tools Window Help
New Query Execute Debug A A+ A-
Object Explorer Connect Diagram Contoh5 Contoh5.sql - DESKTOP-ANDRI\andri (56)*
DESKTOP-ANDRI\SQL Server 11.0.6020
Database contoh5
System Databases
Tables
FileTables
dbo.TblDosen
dbo.TblJurusan
dbo.TblMahasiswa
dbo.TblMatakuliah
dbo.TblMengajar
Views
Synonyms
Programmability
Service Broker
Storage
Security
latihan2
latihan4_201011402125_andri
ReportServer
ReportServerTempDB
Security
Server Objects
Replication
Management

```

```

INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM001', '2011', '1', 'IF103', '269', 'Senin', '1', '401', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM002', '2011', '1', 'IF103', '269', 'Senin', '2', '402', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM003', '2011', '1', 'IF205', '269', 'Senin', '3', '403', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM004', '2011', '1', 'IF105', '270', 'Rabu', '1', '408', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM005', '2011', '1', 'IF201', '270', 'Rabu', '2', '416', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM006', '2011', '1', 'IF202', '270', 'Senin', '1', '408', 'IF1')

(1 row(s) affected)
(1 row(s) affected)
(1 row(s) affected)
(1 row(s) affected)

100 %
Messages
100 %
```

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 0 rows

Ready Ln 141 Col 1 Ch 1 INS

10:07 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

File Edit View Query Project Debug Tools Window Help
New Query Execute Debug A A+ A-
Object Explorer Connect Diagram Contoh5 Contoh5.sql - DESKTOP-ANDRI\andri (56)*
DESKTOP-ANDRI\SQL Server 11.0.6020
Database contoh5
System Databases
Tables
FileTables
dbo.TblDosen
dbo.TblJurusan
dbo.TblMahasiswa
dbo.TblMatakuliah
dbo.TblMengajar
Views
Synonyms
Programmability
Service Broker
Storage
Security
latihan2
latihan4_201011402125_andri
ReportServer
ReportServerTempDB
Security
Server Objects
Replication
Management

```

```

INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM001', '2011', '1', 'IF103', '269', 'Senin', '1', '401', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM002', '2011', '1', 'IF103', '269', 'Senin', '2', '402', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM003', '2011', '1', 'IF205', '269', 'Senin', '3', '403', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM004', '2011', '1', 'IF105', '270', 'Rabu', '1', '408', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM005', '2011', '1', 'IF201', '270', 'Rabu', '2', '416', 'IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JmKe, Kelas, KodeJur) VALUES('KM006', '2011', '1', 'IF202', '270', 'Senin', '1', '408', 'IF1')

SELECT * FROM TblDosen
```

Results Messages

NoDos	NamaDos	TmpLahir	TglLahir	JkLelamin	Agama	Alamat	Kota	Kodepos	GajiPokok
1	ACHMAD BISRI	Jakarta	1980-01-01 00:00:00.000	L	Islam	Jl. Raya Jakarta	Jakarta	12345	5000000.00
2	ACHMAD UDIN ZAELANI	Jakarta	1980-02-02 00:00:00.000	L	Islam	Jl. Raya Pamulang	Jakarta	12312	3000000.00
3	BUDI	Bandung	1975-05-02 00:00:00.000	L	Islam	Jl. Raya Tangerang	Tangerang	34211	4500000.00

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 3 rows

Ln 162 Col 1 Ch 1 INS

10:07 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer
Connect to... New Query Execute Debug A...
contoh5 DESKTOP-ANDRI\co...Diagram_Contoh5 Contoh5.sql - DESKTOP-ANDRI\andri (56)*
  + DESKTOP-ANDRI (SQL Server 11.0.6020)
    + System Databases
      + contoh5
        + Database Diagrams
        + Tables
          + System Tables
          + FileTables
          + dbo.TblDosen
          + dbo.TblJurusan
          + dbo.TblMahasiswa
          + dbo.TblMatakuliah
          + dbo.TblMengajar
        + Views
        + Synonyms
        + Programmability
        + Service Broker
        + Storage
        + Security
      + latihan2
      + latihan4_201011402125_andri
      + ReportServer
      + ReportServerTempDB
    + Security
    + Server Objects
    + Replication
    + Management
  + Iatihan2
  + Iatihan4_201011402125_andri
  + ReportServer
  + ReportServerTempDB
  + Security
  + Server Objects
  + Replication
  + Management

Diagram_Contoh5
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K003', '2011','1','IF205','269','Senin','3','403','IF1')
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K004', '2011','1','IF105','270','Rabu','1','408','IF1')
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K005', '2011','1','IF201','270','Rabu','2','416','IF1')
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K006', '2011','1','IF202','270','Senin','1','408','IF1')

  SELECT * FROM TblDosen
  SELECT * FROM TblMatakuliah

```

Results Messages

KodeMK	NamaMK	SKS	Semester
IF101	Pengantar Teknologi Informasi	2	1
IF102	Pengantar Aplikasi Komputer	2	1
IF103	Algoritma dan Pemrograman	4	1
IF104	Fisika Dasar	2	1
IF105	Sistem Digital	2	1
IF201	Komunikasi Data	3	2
IF202	Struktur Data	4	2
IF203	Matematika Diskrit	2	2
IF204	Jaringan Komputer	2	2
IF205	Sistem Operasi	2	2

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 10 rows

Item(s) Saved

Ln 165 Col 1 Ch 1 INS

1008 AM 10/3/2022

Contoh5.sql - DESKTOP-ANDRI\andri (56)* - Microsoft SQL Server Management Studio (Administrator)

```

Object Explorer
Connect to... New Query Execute Debug A...
contoh5 DESKTOP-ANDRI\co...Diagram_Contoh5 Contoh5.sql - DESKTOP-ANDRI\andri (56)*
  + DESKTOP-ANDRI (SQL Server 11.0.6020)
    + System Databases
      + contoh5
        + Database Diagrams
        + Tables
          + System Tables
          + FileTables
          + dbo.TblDosen
          + dbo.TblJurusan
          + dbo.TblMahasiswa
          + dbo.TblMatakuliah
          + dbo.TblMengajar
        + Views
        + Synonyms
        + Programmability
        + Service Broker
        + Storage
        + Security
      + latihan2
      + latihan4_201011402125_andri
      + ReportServer
      + ReportServerTempDB
    + Security
    + Server Objects
    + Replication
    + Management
  + Iatihan2
  + Iatihan4_201011402125_andri
  + ReportServer
  + ReportServerTempDB
  + Security
  + Server Objects
  + Replication
  + Management

Diagram_Contoh5
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K003', '2011','1','IF205','269','Senin','3','403','IF1')
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K004', '2011','1','IF105','270','Rabu','1','408','IF1')
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K005', '2011','1','IF201','270','Rabu','2','416','IF1')
  + INSERT INTO TblMengajar
    (JamKe, Kelas, KodeJur) VALUES('K006', '2011','1','IF202','270','Senin','1','408','IF1')

  SELECT * FROM TblDosen
  SELECT * FROM TblMatakuliah
  SELECT * FROM TblJurusan

```

Results Messages

KodeJur	NamaJur	Jenjang	Kalur
IF1	Teknik Informatika	S1	Ir. Atang Susila, M.Eng
IF2	Sistem Informasi	S1	Achmad Bint, S.Kom
IF3	Manajemen Informatika	D3	Achmad Udin Zaelani, S.Kom

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 3 rows

Item(s) Saved

Ln 165 Col 1 Ch 1 INS

1008 AM 10/3/2022

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to 'DESKTOP-ANDRI\andri (56)' as an administrator. The Object Explorer on the left shows the database structure for 'contoh5'. The central pane displays a query window with the following T-SQL code:

```
USE contoh5
GO

SELECT * FROM TblMengajar
```

The results pane shows the output of the query:

	kodeMengajar	ThnAkademik	Semester	KodeMK	NoDos	Hari	JamKe	Kelas	KodeJur
1	KM001	2011	1	IF103	269	Senin	1	401	IF1
2	KM002	2011	1	IF103	269	Senin	2	402	IF1
3	KM003	2011	1	IF205	269	Senin	3	403	IF1
4	KM004	2011	1	IF105	270	Rabu	1	408	IF1
5	KM005	2011	1	IF201	270	Rabu	2	416	IF1
6	KM006	2011	1	IF202	270	Senin	1	408	IF1

At the bottom, a message states 'Query executed successfully.' and the status bar shows the session details: DESKTOP-ANDRI (11.0 SP3), DESKTOP-ANDRI\andri (56), contoh5, 00:00:00, 6 rows.

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The Object Explorer on the left lists various databases, including DESKTOP-ANDRI (SQL Server 11.0.6020), contoh5, and others. The central pane displays a query window with the following T-SQL code:

```
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDOS, Hari, Jamke, Kelas, KodeJur) VALUES ('KH005', '2011', '1', 'IF201', '270', 'Rabu', '2', '416', 'IFI')  
INSERT INTO TblMengajar  
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDOS, Hari, Jamke, Kelas, KodeJur) VALUES ('KH006', '2011', '1', 'IF202', '270', 'Senin', '1', '408', 'IFI')  
  
SELECT * FROM TblDosen  
  
SELECT * FROM TblMatakuliah  
  
SELECT * FROM TblJurusan  
  
SELECT * FROM TblMengajar  
  
SELECT NamaDos, JKelamin, Alamat, Kota  
FROM TblDosen
```

The Results tab shows the output of the last query:

	NamaDos	JKelamin	Alamat	Kota
1	ACHMAD BISRI	L	Jl. Raya Jakarta	Jakarta
2	ACHMAD UDIN ZEALANI	L	Jl. Raya Pamulang	Jakarta
3	BUDI	L	Jl. Raya Tangerang	Tangerang

At the bottom, a message indicates the query was executed successfully.

The screenshot shows the Microsoft SQL Server Management Studio (Administrator) interface. The Object Explorer on the left lists the database structure for 'DESKTOP-ANDRI (SQL Server 11.0.6020)'. The 'Tables' node under 'contoh5' contains several tables: TblDosen, TblMatakuliah, TblJurusan, TblMahasiswa, TblMatkulah, TblMengajar, and TblMengajar. The 'Results' tab in the center displays the output of a query that selects columns from TblDosen. The results grid shows three rows of data:

	NamaDos	JkElamin	Alamat	Kota
1	ACHMAD BISRI	L	Jl. Raya Jakarta	Jakarta
2	ACHMAD UDIN ZAELANI	L	Jl. Raya Pamulang	Jakarta
3	BUDI	L	Jl. Raya Tangerang	Tangerang

At the bottom, a message indicates 'Query executed successfully.' and the status bar shows 'Ln 170 Col 1 Ch 1 INS 10:09 AM 10/3/2022'.

Contoh5.sql - DESKTOP-ANDRI.contoh5 (DESKTOP-ANDRI\andri (56)) - Microsoft SQL Server Management Studio (Administrator)

File Edit View Query Project Debug Tools Window Help

Object Explorer

Connect ▾ DESKTOP-ANDRI.co... Diagram Contoh5 Contoh5.sql - DESKTOP-ANDRI\andri (56) ▾

(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDOS, Hari, JamKe, Kelas, KodeJur) VALUES ('KM006', '2011', '1', 'IF202', '270', 'Senin', '1', '408', 'IF1')

```
SELECT * FROM TblDosen

SELECT * FROM TblMatakuliah

SELECT * FROM TblJurusan

SELECT * FROM TblMengajar

SELECT NamaDos, JKelamin, Alamat, Kota
FROM TblDosen

SELECT NamaDos, JKelamin, Alamat, Kota
FROM TblDosen
WHERE Kota = 'Tangerang'
```

Results Messages

	NamaDos	JKelamin	Alamat	Kota
1	BUDI	L	Jl. Raya Tangerang	Tangerang

Click to select the whole column

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | contoh5 | 00:00:00 | 1 rows

Ln 172 Col 1 Ch 1 INS

10:10 AM 10/3/2022

```
create database contoh5;

use contoh5;

create table TblMahasiswa (nim char(10) not null,
                            nama_mhs varchar(50) not null,
                            tmpt_lahir varchar(20) not null,
                            tgl_lahir date not null,
                            jenis_kelamin char(1) not null,
                            agama varchar(10) not null,
                            alamat text not null,
                            kota varchar(15) not null,
                            kode_pos char(5) not null,
                            no_telp char(13) not null);

insert into TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama,
                           alamat, kota, kode_pos, no_telp)
values ('200714014', 'Andri Firman Saputra', 'Jakarta', '2002-01-29', 'l', 'Islam', 'Jl. AMD Babakan Pocis',
       'Tangsel', '15315', '087808675313');

insert into TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama,
                           alamat, kota, kode_pos, no_telp)
values ('2007140086', 'ADE CAHYADI', 'Bandung', '1987-08-17',
       'l', 'Islam', 'Jl. Raya Jakarta',
       'Jakarta', '54321', '0888999922');

insert into TblMahasiswa (nim, nama_mhs, tmpt_lahir, tgl_lahir, jenis_kelamin, agama,
                           alamat, kota, kode_pos, no_telp)
values ('2007140156', 'ARIZONA RH', 'Surabaya', '1985-02-10',
       'l', 'Islam', 'Jl. Perumnas 1 No. 11',
       'Tangerang', '21211', '0818787212');

select * from TblMahasiswa;

update TblMahasiswa set alamat = 'Jl. Jakarta 41 bulungan' where nim = '200714014';

select * from TblMahasiswa;

delete from TblMahasiswa where nim = '200714014';

select * from TblMahasiswa;
```

```
CREATE TABLE TblDosen(
    NoDos nchar(3) Not Null,
    NamaDos nchar(35) Not Null,
    TmpLahir nchar(25) Not Null,
    TglLahir datetime Not Null,
    JKelamin nchar(1) Not Null,
    Agama nchar(10) Not Null,
    Alamat nchar(100) Null,
    Kota nchar(25) Null,
    Kodepos nchar(5) Null,
    GajiPokok money Not Null,
    CONSTRAINT PK_Dosen Primary key (NoDos)
);
```

```
CREATE TABLE TblMatakuliah(
    KodeMK nchar(5) Not Null,
    NamaMK nchar(35) Not Null,
    SKS int Not Null,
    Semester nchar(1) Not Null,
    CONSTRAINT PK_Matakuliah Primary key (KodeMK)
);
```

```
CREATE TABLE TblJurusan(
    KodeJur nchar(3) Not Null,
    NamaJur nchar(35) Not Null,
    Jenjang nchar(2) Not Null,
    KaJur nchar(35) Not Null,
    CONSTRAINT PK_Jurusan Primary key (KodeJur)
);
```

```
CREATE TABLE TblMengajar(
    kodeMengajar nchar(5) not null,
    ThnAkademik nchar(4) Not Null,
    Semester nchar(1) Not Null,
    KodeMK nchar(5) Not Null,
    NoDos nchar(3) Not Null,
    Hari nchar(6) Not Null,
    JamKe nchar(1) Not Null,
    Kelas nchar(3) Not Null,
```

```

KodeJur nchar(3) Not Null,
CONSTRAINT PK_Mengajar primary key (kodeMengajar));

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Dosen Foreign Key (NoDos)
REFERENCES TblDosen(NoDos)

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Matakuliah Foreign Key (KodeMK)
REFERENCES TblMatakuliah(KodeMK)

ALTER TABLE TblMengajar
ADD CONSTRAINT FK_Jurusan Foreign Key (KodeJur)
REFERENCES TblJurusan(KodeJur)

INSERT INTO TblDosen
(NoDos, NamaDos, TmpLahir, TglLahir, JKelamin, Agama, Alamat,
Kota, KodePos, GajiPokok)
VALUES('269', 'ACHMAD BISRI', 'Jakarta', '1980-01-01',
'L', 'Islam', 'Jl. Raya Jakarta', 'Jakarta',
'12345', '5000000')

INSERT INTO TblDosen
(NoDos, NamaDos, TmpLahir, TglLahir, JKelamin, Agama, Alamat,
Kota, KodePos, GajiPokok)
VALUES('270', 'ACHMAD UDIN ZAELANI', 'Jakarta', '1980-02-02',
'L', 'Islam', 'Jl. Raya Pamulang', 'Jakarta',
'12312', '3000000')

INSERT INTO TblDosen
(NoDos, NamaDos, TmpLahir, TglLahir, JKelamin, Agama, Alamat,
Kota, KodePos, GajiPokok)
VALUES('271', 'BUDI', 'Bandung', '1975-05-02', 'L', 'Islam',
'Jl. Raya Tangerang', 'Tangerang', '34211', '4500000')

INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF105', 'Sistem Digital', '2', '1')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF201', 'Komunikasi Data', '3', '2')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF202', 'Struktur Data', '4', '2')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF203', 'Matematika Diskrit', '2', '2')
INSERT INTO TblMatakuliah

```

```
(KodeMK, NamaMK, SKS, Semester) VALUES('IF204','Jaringan Komputer','2','2')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF205','Sistem Operasi','2','2')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF101','Pengantar Teknologi
Informasi','2','1')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF102','Pengantar Aplikasi Komputer','2','1')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF103','Algoritma dan Pemrograman','4','1')
INSERT INTO TblMatakuliah
(KodeMK, NamaMK, SKS, Semester) VALUES('IF104','Fisika Dasar','2','1')

INSERT INTO TblJurusan
(KodeJur, NamaJur, Jenjang, KaJur) VALUES('IF1','Teknik Informatika','S1',
'Ir. Atang Susila, M.Eng')
INSERT INTO TblJurusan
(KodeJur, NamaJur, Jenjang, KaJur) VALUES('IF2','Sistem Informasi','S1','Achmad Bisri,
S.Kom')
INSERT INTO TblJurusan
(KodeJur, NamaJur, Jenjang, KaJur) VALUES('IF3','Manajemen Informatika','D3',
'Achmad Udin Zaelani, S.Kom')

INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JamKe, Kelas, KodeJur) VALUES('KM001',
'2011','1','IF103','269','Senin','1','401','IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JamKe, Kelas, KodeJur) VALUES('KM002',
'2011','1','IF103','269','Senin','2','402','IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JamKe, Kelas, KodeJur) VALUES('KM003',
'2011','1','IF205','269','Senin','3','403','IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JamKe, Kelas, KodeJur) VALUES('KM004',
'2011','1','IF105','270','Rabu','1','408','IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
```

```
JamKe, Kelas, KodeJur) VALUES('KM005',
'2011','1','IF201','270','Rabu','2','416','IF1')
INSERT INTO TblMengajar
(kodeMengajar, ThnAkademik, Semester, KodeMK, NoDos, Hari,
JamKe, Kelas, KodeJur) VALUES('KM006',
'2011','1','IF202','270','Senin','1','408','IF1')

SELECT * FROM TblDosen

SELECT * FROM TblMatakuliah

SELECT * FROM TblJurusan

SELECT * FROM TblMengajar

SELECT NamaDos, JKelamin, Alamat, Kota
FROM TblDosen

SELECT NamaDos, JKelamin, Alamat, Kota
FROM TblDosen
WHERE Kota = 'Tangerang'
```