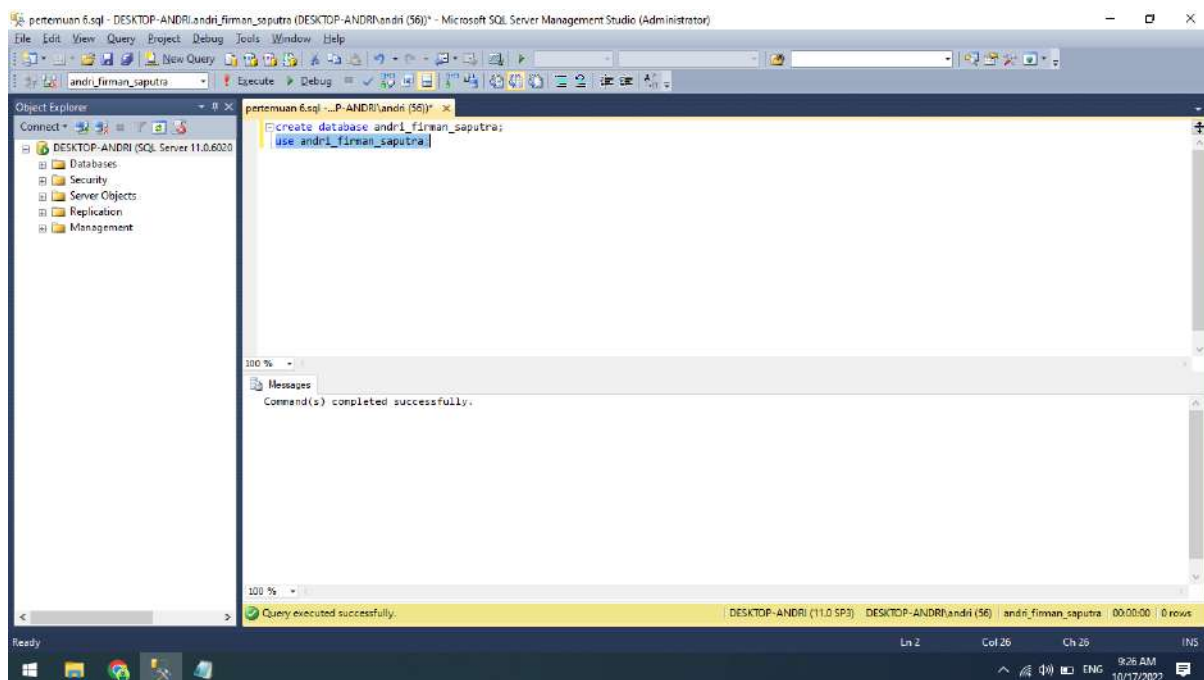
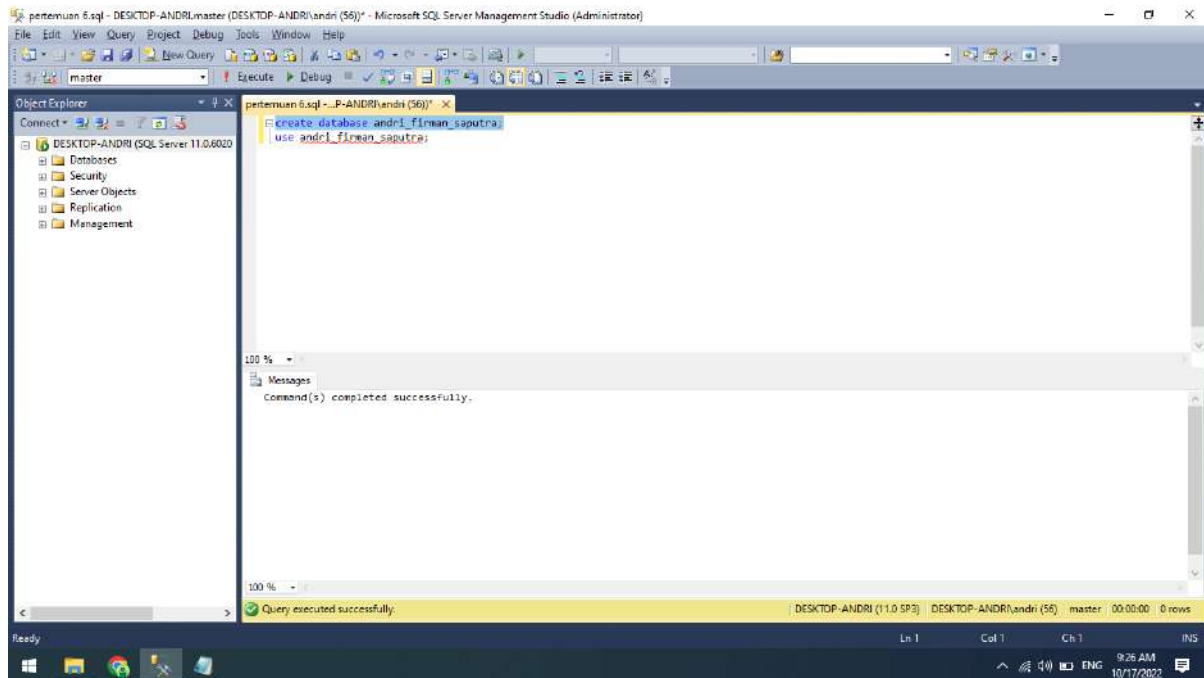


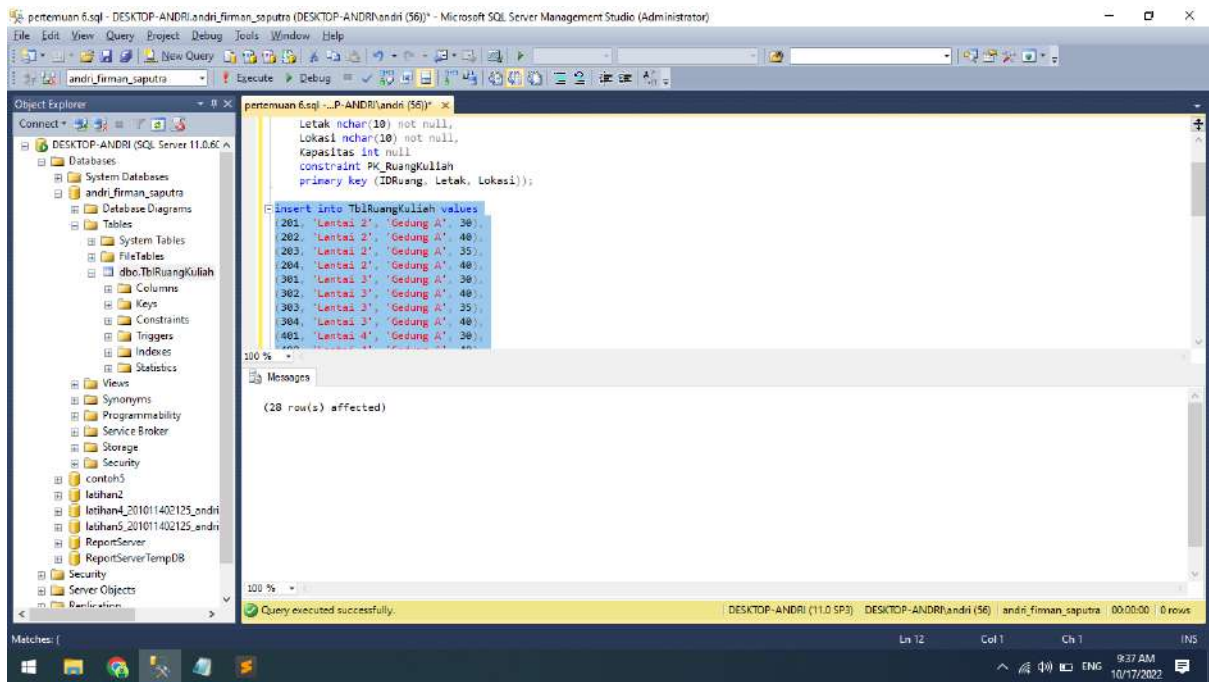
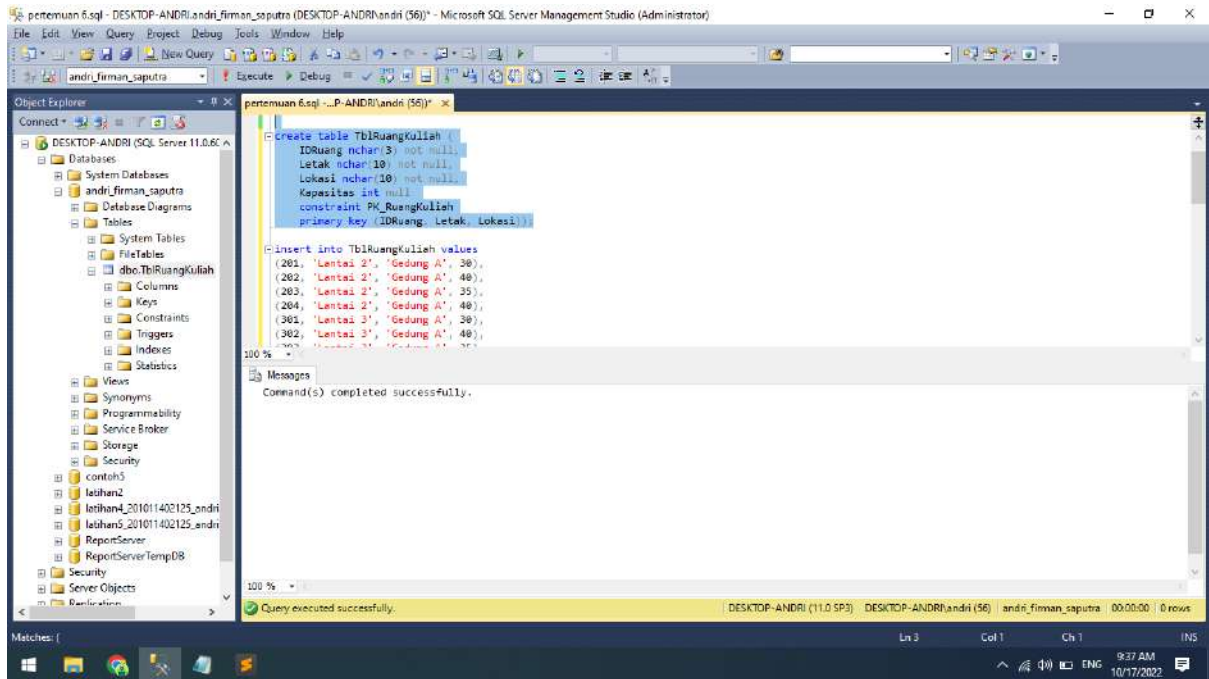
Nama : Andri Firman Saputra

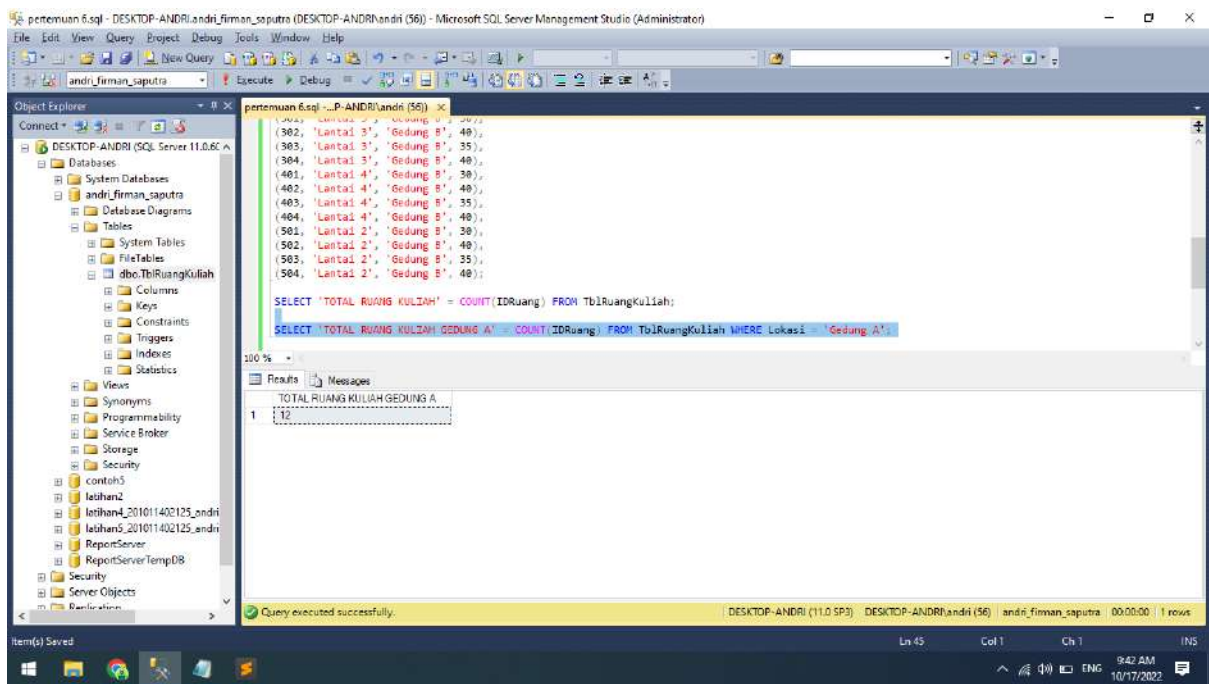
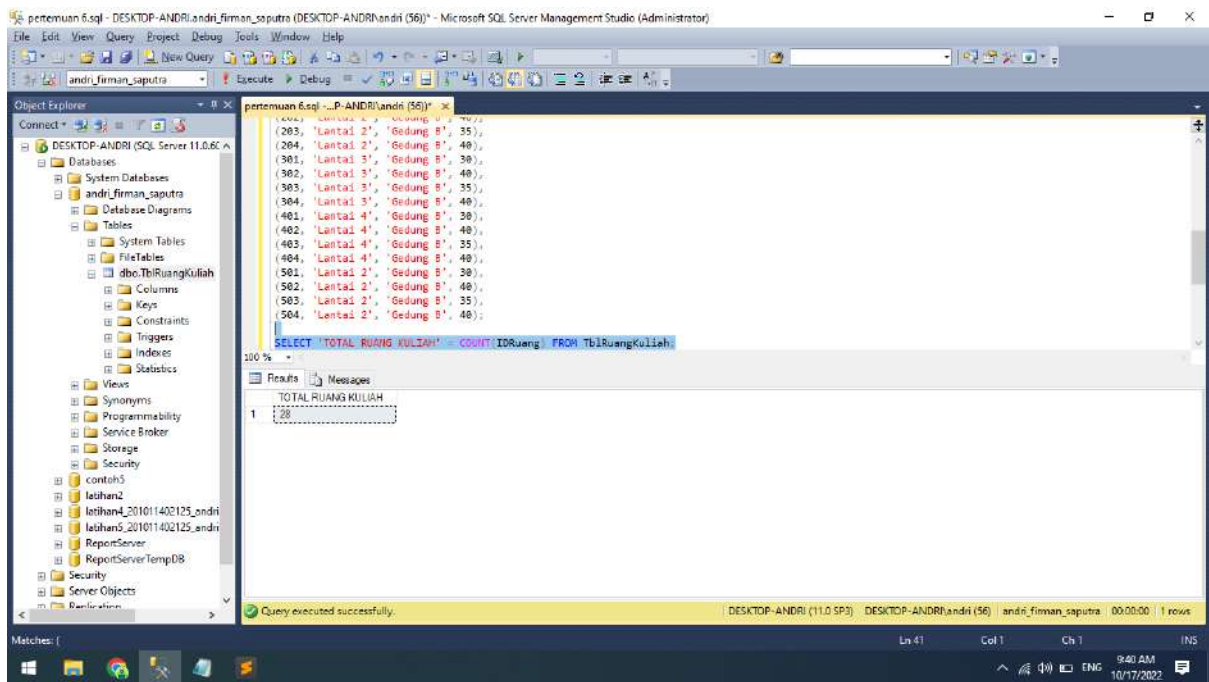
NIM : 201011402125

Kelas : 05TLP016

Tugas : Basis Data II – Latihan 6







petemuan 6.sql - DESKTOP-ANDRI.andri_firman_saputra (DESKTOP-ANDRIandri (56)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer

- DESKTOP-ANDRI (SQL Server 11.0.6025.1)
- Databases
 - System Databases
 - andri_firman_saputra
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - dbo.TblRuanganKuliah
 - Columns
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - Views
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - contoh5
 - latihan2
 - latihan4_201011402125_andri
 - latihan5_201011402125_andri
 - ReportServer
 - ReportServerTempDB
 - Security
 - Server Objects
 - Replication

petemuan 6.sql - P-ANDRIandri (56)

```
(304, 'Lantai 3', 'Gedung B', 40),
(401, 'Lantai 4', 'Gedung B', 30),
(402, 'Lantai 4', 'Gedung B', 40),
(403, 'Lantai 4', 'Gedung B', 35),
(404, 'Lantai 4', 'Gedung B', 40),
(501, 'Lantai 2', 'Gedung B', 30),
(502, 'Lantai 2', 'Gedung B', 40),
(503, 'Lantai 2', 'Gedung B', 35),
(504, 'Lantai 2', 'Gedung B', 40);

SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuanganKuliah;
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung A';
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuanganKuliah;
```

Results

1	TOTAL KAPASITAS RUANG KULIAH
1	1015

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRIandri (56) | andri_firman_saputra | 00:00:00 | 1 rows

Item(s) Saved

Ln 46 | Col 1 | Ch 1 | INS

9:46 AM
10/17/2022

petemuan 6.sql - DESKTOP-ANDRI.andri_firman_saputra (DESKTOP-ANDRIandri (56)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer

- DESKTOP-ANDRI (SQL Server 11.0.6025.1)
- Databases
 - System Databases
 - andri_firman_saputra
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - dbo.TblRuanganKuliah
 - Columns
 - Keys
 - Constraints
 - Triggers
 - Indexes
 - Statistics
 - Views
 - Synonyms
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 - Service Broker
 - Storage
 - Security
 - contoh5
 - latihan2
 - latihan4_201011402125_andri
 - latihan5_201011402125_andri
 - ReportServer
 - ReportServerTempDB
 - Security
 - Server Objects
 - Replication

petemuan 6.sql - P-ANDRIandri (56)

```
(402, 'Lantai 4', 'Gedung B', 40),
(403, 'Lantai 4', 'Gedung B', 35),
(404, 'Lantai 4', 'Gedung B', 40),
(501, 'Lantai 2', 'Gedung B', 30),
(502, 'Lantai 2', 'Gedung B', 40),
(503, 'Lantai 2', 'Gedung B', 35),
(504, 'Lantai 2', 'Gedung B', 40);

SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuanganKuliah;
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung A';
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuanganKuliah;
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung B';
```

Results

1	TOTAL KAPASITAS RUANG KULIAH GEDUNG B
1	380

Query executed successfully.

DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRIandri (56) | andri_firman_saputra | 00:00:00 | 1 rows

Item(s) Saved

Ln 47 | Col 1 | Ch 1 | INS

9:46 AM
10/17/2022

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: andri_firman_saputra

Query Editor: pertemuan 6.sql - P-ANDRI\andri (56)

```
SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuangKuliah;  
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuangKuliah WHERE Lokasi = 'Gedung A';  
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuangKuliah;  
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuangKuliah WHERE Lokasi = 'Gedung B';  
SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuangKuliah;
```

Results: Messages

KAPASITAS RUANG TERKECIL
30

Query executed successfully.

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

Item(s) Saved | Ln 49 | Col 1 | Ch 1 | INS | 9:47 AM | 10/17/2022

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: andri_firman_saputra

Query Editor: pertemuan 6.sql - P-ANDRI\andri (56)

```
SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuangKuliah;  
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuangKuliah WHERE Lokasi = 'Gedung A';  
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuangKuliah;  
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuangKuliah WHERE Lokasi = 'Gedung B';  
SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuangKuliah;  
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuangKuliah;
```

Results: Messages

KAPASITAS RUANG TERBESAR
40

Query executed successfully.

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

Item(s) Saved | Ln 54 | Col 1 | Ch 1 | INS | 9:48 AM | 10/17/2022

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6025.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuangKuliah

```

-- Insert Data
INSERT INTO TblRuangKuliah (IDRuang, Lokasi, Gedung, Kapasitas)
VALUES
(503, 'Lantai 2', 'Gedung B', 35),
(504, 'Lantai 2', 'Gedung B', 40);

SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuangKuliah;
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuangKuliah WHERE Lokasi = 'Gedung A';
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuangKuliah;
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuangKuliah WHERE Lokasi = 'Gedung B';
SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuangKuliah;
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuangKuliah;
SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuangKuliah;

```

Results:

RATA-RATA KAPASITAS RUANG	
1	36

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) DESKTOP-ANDRI\andri (56) andri_firman_saputra 00:00:00 1 rows

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6025.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuangKuliah

```

-- Insert Data
INSERT INTO TblRuangKuliah (IDRuang, Lokasi, Gedung, Kapasitas)
VALUES
(503, 'Lantai 2', 'Gedung B', 35),
(504, 'Lantai 2', 'Gedung B', 40);

SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuangKuliah;
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuangKuliah WHERE Lokasi = 'Gedung A';
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuangKuliah;
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuangKuliah WHERE Lokasi = 'Gedung B';
SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuangKuliah;
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuangKuliah;
SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuangKuliah;
SELECT Lokasi, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuangKuliah GROUP BY Lokasi;

```

Results:

Lokasi	JML KAPASITAS
Gedung A	435
Gedung B	580

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) DESKTOP-ANDRI\andri (56) andri_firman_saputra 00:00:00 2 rows

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6025.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuanganKuliah

```

--P-ANDRI/andri (56)
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuangan) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung A';
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuanganKuliah;
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung B';
SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuanganKuliah;
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuanganKuliah;
SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuanganKuliah;
SELECT Lokasi, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Lokasi;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Letak;

```

Results:

Letak	JML KAPASITAS
Lantai 2	435
Lantai 3	290
Lantai 4	250

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) DESKTOP-ANDRI/andri (56) andri_firman_saputra 00:00:00 3 rows

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6025.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuanganKuliah

```

--P-ANDRI/andri (56)
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuanganKuliah;
SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung B';
SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuanganKuliah;
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuanganKuliah;
SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuanganKuliah;
SELECT Lokasi, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Lokasi;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Letak;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung B' GROUP BY Letak;

```

Results:

Letak	JML KAPASITAS
Lantai 2	290
Lantai 3	145
Lantai 4	145

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) DESKTOP-ANDRI/andri (56) andri_firman_saputra 00:00:00 3 rows

petemuan 6.sql - DESKTOP-ANDRI.andri_firman_saputra (DESKTOP-ANDRI(56)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer

Connect

DESKTOP-ANDRI (SQL Server 11.0.6016.1)

Databases

System Databases

andri_firman_saputra

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FileTables

dbo.TblRuanganKuliah

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Views

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Service Broker

Storage

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contoh5

latihan2

latihan4_201011402125_andri

latihan5_201011402125_andri

ReportServer

ReportServerTempDB

Security

Server Objects

Replication

petemuan 6.sql - P-ANDRI(56)

```

SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuanganKuliah;
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuanganKuliah;
SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuanganKuliah;
SELECT Lokasi, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Lokasi;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Letak;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung B' GROUP BY Letak;
SELECT * FROM TblRuanganKuliah ORDER BY IDRuang ASC;
SELECT * FROM TblRuanganKuliah ORDER BY IDRuang DESC;

```

Results

IDRuang	Letak	Lokasi	Kapasitas
201	Lantai 2	Gedung A	30
201	Lantai 2	Gedung B	30
202	Lantai 2	Gedung A	40
202	Lantai 2	Gedung B	40
203	Lantai 2	Gedung A	35
203	Lantai 2	Gedung B	35
204	Lantai 2	Gedung A	40
204	Lantai 2	Gedung B	40
301	Lantai 3	Gedung A	30
301	Lantai 3	Gedung B	30
302	Lantai 3	Gedung A	40

Query executed successfully.

DESKTOP-ANDRI (11.0.573) | DESKTOP-ANDRI(56) | andri_firman_saputra | 00:00:00 | 28 rows

Item(s) Saved

Ln 61 | Col 1 | Ch 1 | INS

10:26 AM 10/17/2022

petemuan 6.sql - DESKTOP-ANDRI.andri_firman_saputra (DESKTOP-ANDRI(56)) - Microsoft SQL Server Management Studio (Administrator)

Object Explorer

Connect

DESKTOP-ANDRI (SQL Server 11.0.6016.1)

Databases

System Databases

andri_firman_saputra

Database Diagrams

Tables

System Tables

FileTables

dbo.TblRuanganKuliah

Columns

Keys

Constraints

Triggers

Indexes

Statistics

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contoh5

latihan2

latihan4_201011402125_andri

latihan5_201011402125_andri

ReportServer

ReportServerTempDB

Security

Server Objects

Replication

petemuan 6.sql - P-ANDRI(56)

```

SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuanganKuliah;
SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuanganKuliah;
SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuanganKuliah;
SELECT Lokasi, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Lokasi;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah GROUP BY Letak;
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung B' GROUP BY Letak;
SELECT * FROM TblRuanganKuliah ORDER BY IDRuang ASC;
SELECT * FROM TblRuanganKuliah ORDER BY IDRuang DESC;

```

Results

IDRuang	Letak	Lokasi	Kapasitas
504	Lantai 2	Gedung B	40
503	Lantai 2	Gedung B	35
502	Lantai 2	Gedung B	40
501	Lantai 2	Gedung B	30
404	Lantai 4	Gedung B	40
404	Lantai 4	Gedung A	40
403	Lantai 4	Gedung B	35
403	Lantai 4	Gedung A	35
402	Lantai 4	Gedung B	40
402	Lantai 4	Gedung A	40
401	Lantai 4	Gedung B	30

Query executed successfully.

DESKTOP-ANDRI (11.0.573) | DESKTOP-ANDRI(56) | andri_firman_saputra | 00:00:00 | 28 rows

Item(s) Saved

Ln 64 | Col 1 | Ch 1 | INS

10:26 AM 10/17/2022

Source Code:

```
create database andri_firman_saputra;
use andri_firman_saputra;

create table TblRuangKuliah (
    IDRuang nchar(3) not null,
    Letak nchar(10) not null,
    Lokasi nchar(10) not null,
    Kapasitas int null
    constraint PK_RuangKuliah
    primary key (IDRuang, Letak, Lokasi));

insert into TblRuangKuliah values
(201, 'Lantai 2', 'Gedung A', 30),
(202, 'Lantai 2', 'Gedung A', 40),
(203, 'Lantai 2', 'Gedung A', 35),
(204, 'Lantai 2', 'Gedung A', 40),
(301, 'Lantai 3', 'Gedung A', 30),
(302, 'Lantai 3', 'Gedung A', 40),
(303, 'Lantai 3', 'Gedung A', 35),
(304, 'Lantai 3', 'Gedung A', 40),
(401, 'Lantai 4', 'Gedung A', 30),
(402, 'Lantai 4', 'Gedung A', 40),
(403, 'Lantai 4', 'Gedung A', 35),
(404, 'Lantai 4', 'Gedung A', 40),
(201, 'Lantai 2', 'Gedung B', 30),
(202, 'Lantai 2', 'Gedung B', 40),
(203, 'Lantai 2', 'Gedung B', 35),
(204, 'Lantai 2', 'Gedung B', 40),
(301, 'Lantai 3', 'Gedung B', 30),
(302, 'Lantai 3', 'Gedung B', 40),
(303, 'Lantai 3', 'Gedung B', 35),
(304, 'Lantai 3', 'Gedung B', 40),
(401, 'Lantai 4', 'Gedung B', 30),
(402, 'Lantai 4', 'Gedung B', 40),
(403, 'Lantai 4', 'Gedung B', 35),
(404, 'Lantai 4', 'Gedung B', 40),
(501, 'Lantai 2', 'Gedung B', 30),
(502, 'Lantai 2', 'Gedung B', 40),
(503, 'Lantai 2', 'Gedung B', 35),
(504, 'Lantai 2', 'Gedung B', 40);

SELECT 'TOTAL RUANG KULIAH' = COUNT(IDRuang) FROM TblRuangKuliah;

SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuang) FROM TblRuangKuliah WHERE Lokasi
= 'Gedung A';

SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuangKuliah;

SELECT 'TOTAL KAPASITAS RUANG KULIAH GEDUNG B' = SUM(Kapasitas) FROM TblRuangKuliah
WHERE Lokasi = 'Gedung B';

SELECT 'KAPASITAS RUANG TERKECIL' = MIN(Kapasitas) FROM TblRuangKuliah;

SELECT 'KAPASITAS RUANG TERBESAR' = MAX(Kapasitas) FROM TblRuangKuliah;

SELECT 'RATA-RATA KAPASITAS RUANG' = AVG(Kapasitas) FROM TblRuangKuliah;

SELECT Lokasi, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuangKuliah GROUP BY Lokasi;

SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuangKuliah GROUP BY Letak;
```

```
SELECT Letak, 'JML KAPASITAS' = SUM(Kapasitas) FROM TblRuangKuliah WHERE Lokasi =  
'Gedung B' GROUP BY Letak;
```

```
SELECT * FROM TblRuangKuliah ORDER BY IDRuang ASC;
```

```
SELECT * FROM TblRuangKuliah ORDER BY IDRuang DESC;
```