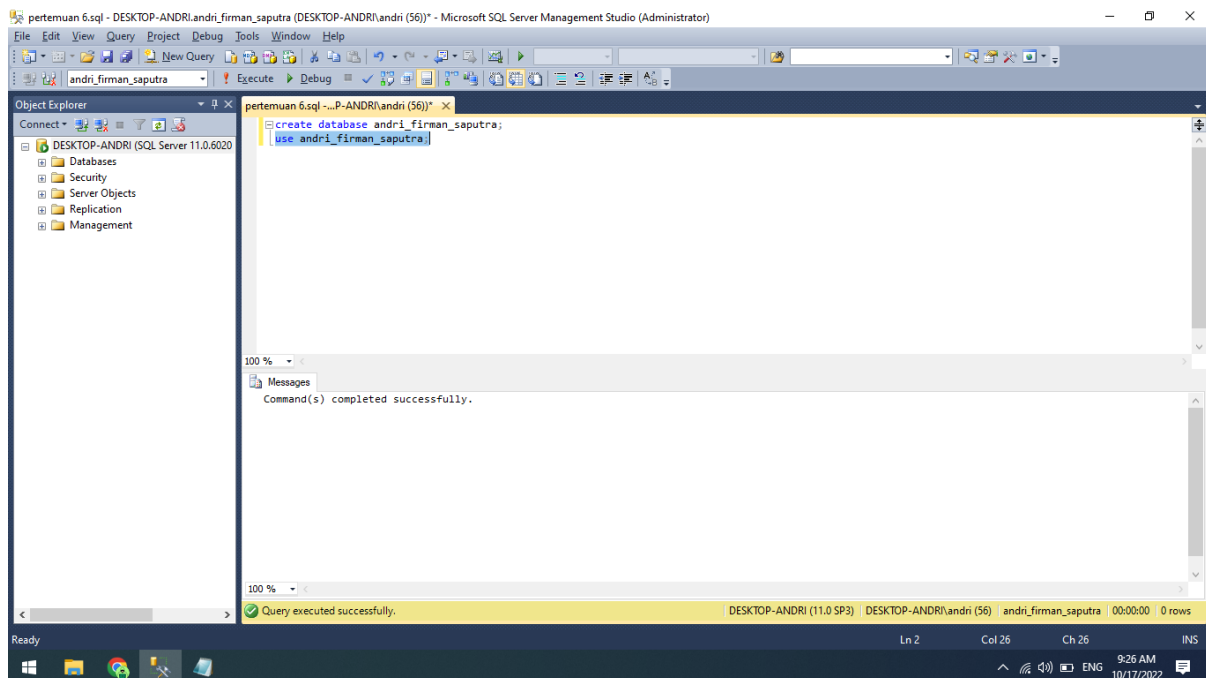
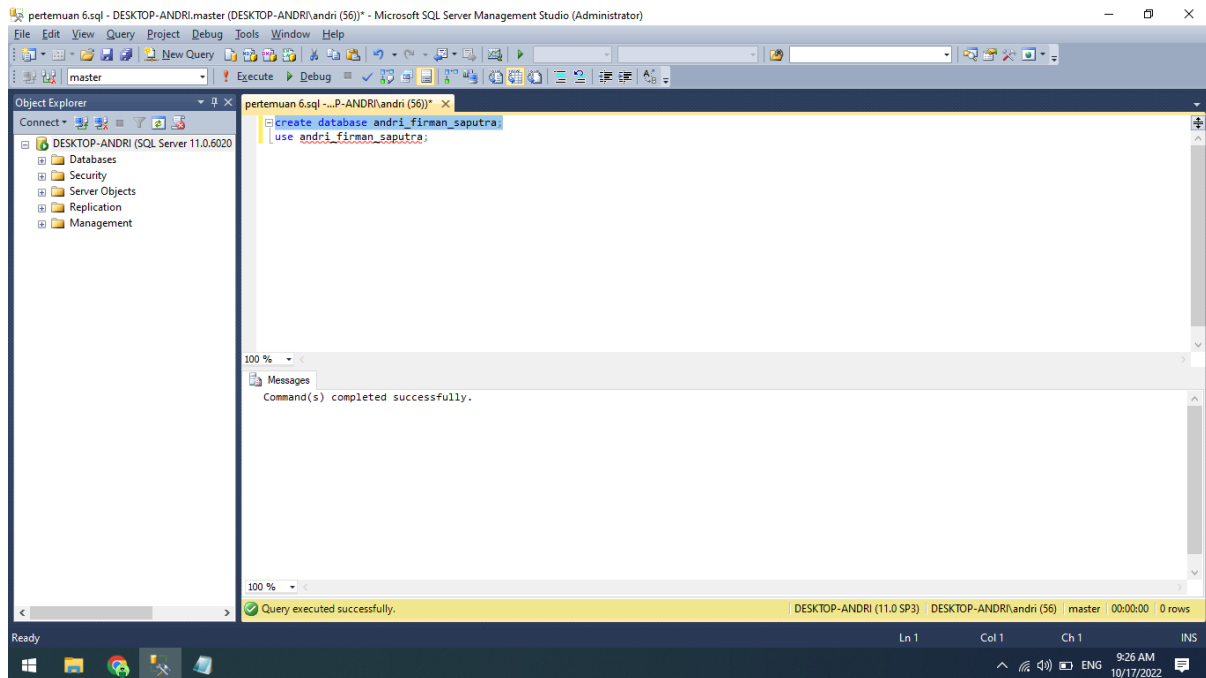


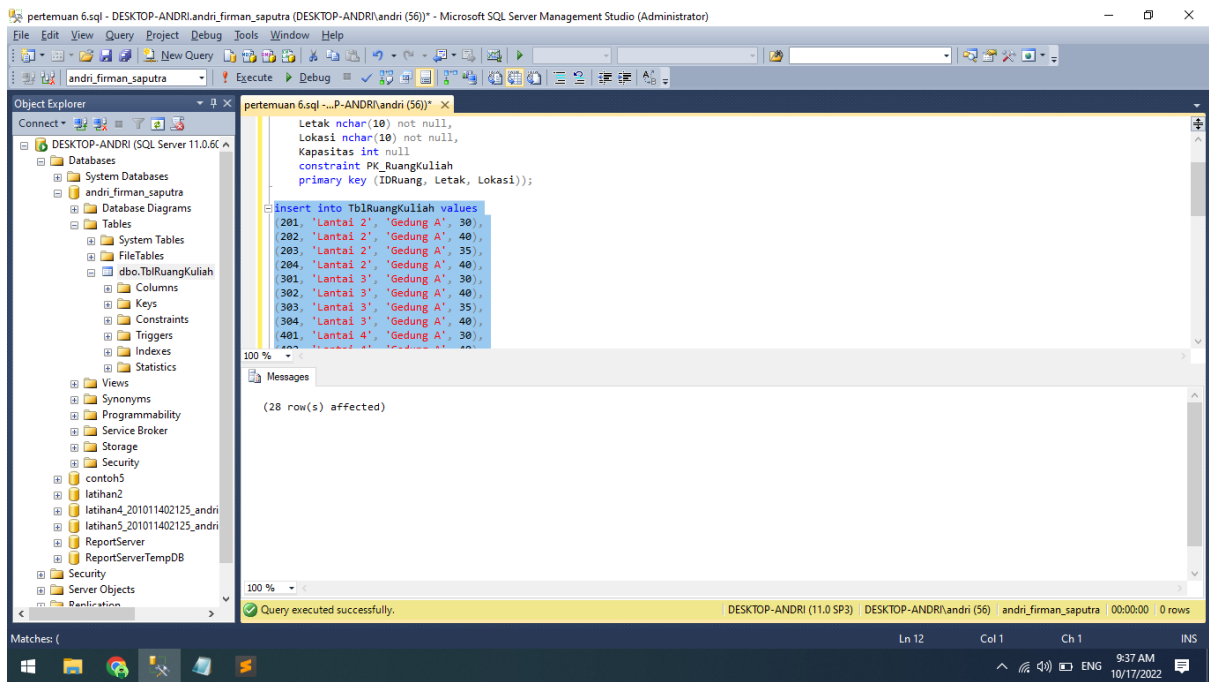
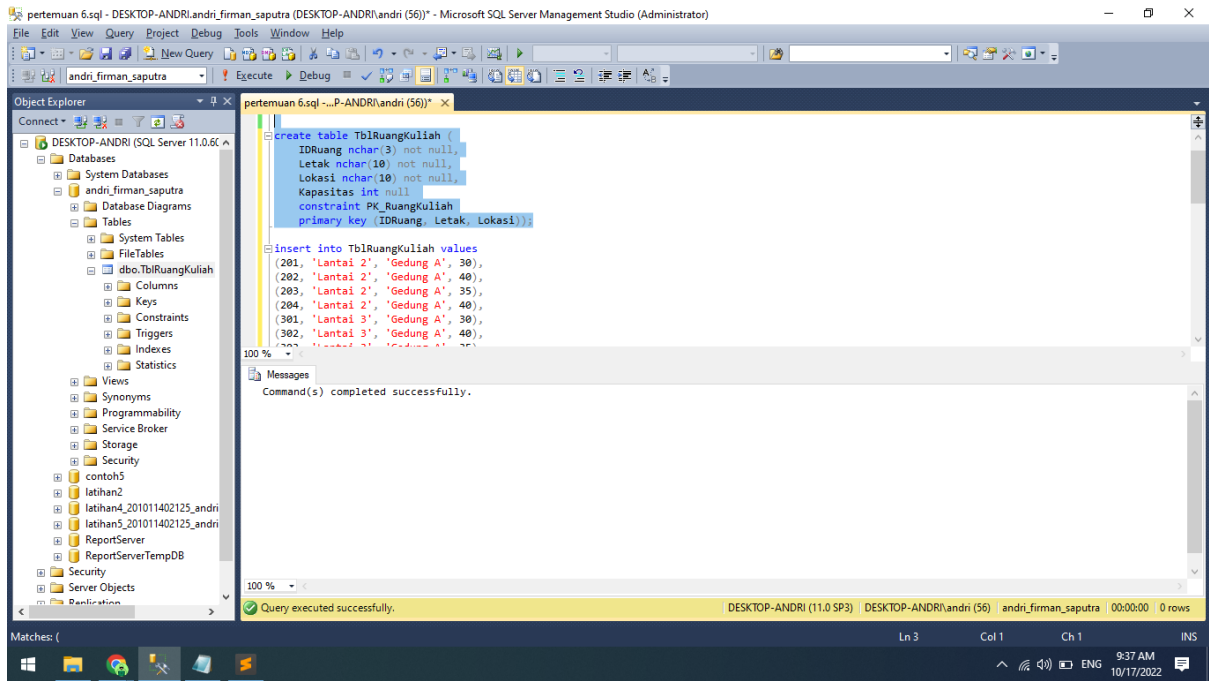
Nama : Andri Firman Saputra

NIM : 201011402125

Kelas : 05TLP016

Tugas : Basis Data II – Latihan 6





Microsoft SQL Server Management Studio (Administrator) window showing a query execution. The query is:

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

The results pane shows one row with the value 28.

1
28

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) window showing a query execution. The query is:

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

The results pane shows one row with the value 12.

1
12

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) window showing a query execution result.

Query Text:

```
INSERT INTO TblRuanganKuliah (IDRuangan, Lokasi, Kapasitas) VALUES
(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(IDRuangan) FROM TblRuanganKuliah;
SELECT 'TOTAL RUANG KULIAH GEDUNG A' = COUNT(IDRuangan) FROM TblRuanganKuliah WHERE Lokasi = 'Gedung A';
SELECT 'TOTAL KAPASITAS RUANG KULIAH' = SUM(Kapasitas) FROM TblRuanganKuliah;
```

Results:

1
TOTAL KAPASITAS RUANG KULIAH
1015

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) window showing a query execution result.

Query Text:

```
INSERT INTO TblRuanganKuliah (IDRuangan, Lokasi, Kapasitas) VALUES
(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(IDRuangan) FROM TblRuanganKuliah;
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';
```

Results:

1
TOTAL KAPASITAS RUANG KULIAH GEDUNG B
580

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) window showing a query execution. The query is:

```
INSERT INTO TblRuangKuliah (IDRuang, Lokasi, Kapasitas) VALUES
(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;
```

The Results pane shows the output of the last query:

KAPASITAS RUANG TERKECIL
30

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) window showing a query execution. The query is:

```
INSERT INTO TblRuangKuliah (IDRuang, Lokasi, Kapasitas) VALUES
(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;
```

The Results pane shows the output of the last query:

KAPASITAS RUANG TERBESAR
40

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) window showing a query execution for 'pertemuan 6.sql'.

Object Explorer: Shows the database structure for 'DESKTOP-ANDRI (SQL Server 11.0.6025.1)'. The 'Tables' folder is expanded, showing 'dbo.TblRuangKuliah'.

Query Editor: Contains the following SQL script:

```
USE pertemuan_6;
GO
INSERT INTO TblRuangKuliah (IDRuang, Lokasi, 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: The query results show the average capacity (RATA-RATA KAPASITAS RUANG) as 36.

RATA-RATA KAPASITAS RUANG
36

Status Bar: 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) window showing a query execution for 'pertemuan 6.sql'.

Object Explorer: Shows the database structure for 'DESKTOP-ANDRI (SQL Server 11.0.6025.1)'. The 'Tables' folder is expanded, showing 'dbo.TblRuangKuliah'.

Query Editor: Contains the following SQL script:

```
USE pertemuan_6;
GO
INSERT INTO TblRuangKuliah (IDRuang, Lokasi, 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: The query results show the total capacity (JML KAPASITAS) for each location (Lokasi).

Lokasi	JML KAPASITAS
Gedung A	435
Gedung B	580

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

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

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6016.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuanganKuliah

```

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	290

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

Item(s) Saved: DESKTOP-ANDRI (11.0 SP3) | Col 1 | Ch 1 | INS | 9:53 AM | 10/17/2022

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

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6016.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuanganKuliah

```

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

Item(s) Saved: Ln 61 | Col 1 | Ch 1 | INS | 9:54 AM | 10/17/2022

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6015.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuangKuliah

```

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;

```

Results (11 rows):

IDRuang	Letak	Lokasi	Kapasitas
1	201	Lantai 2 Gedung A	30
2	201	Lantai 2 Gedung B	30
3	202	Lantai 2 Gedung A	40
4	202	Lantai 2 Gedung B	40
5	203	Lantai 2 Gedung A	35
6	203	Lantai 2 Gedung B	35
7	204	Lantai 2 Gedung A	40
8	204	Lantai 2 Gedung B	40
9	301	Lantai 3 Gedung A	30
10	301	Lantai 3 Gedung B	30
11	302	Lantai 3 Gedung A	40

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | andri_firman_saputra | 00:00:00 | 28 rows

Microsoft SQL Server Management Studio (Administrator)

Object Explorer: DESKTOP-ANDRI (SQL Server 11.0.6015.1) > Databases > andri_firman_saputra > Tables > dbo.TblRuangKuliah

```

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;

```

Results (11 rows):

IDRuang	Letak	Lokasi	Kapasitas
1	504	Lantai 2 Gedung B	40
2	503	Lantai 2 Gedung B	35
3	502	Lantai 2 Gedung B	40
4	501	Lantai 2 Gedung B	30
5	404	Lantai 4 Gedung B	40
6	404	Lantai 4 Gedung A	40
7	403	Lantai 4 Gedung B	35
8	403	Lantai 4 Gedung A	35
9	402	Lantai 4 Gedung B	40
10	402	Lantai 4 Gedung A	40
11	401	Lantai 4 Gedung B	30

Query executed successfully. DESKTOP-ANDRI (11.0 SP3) | DESKTOP-ANDRI\andri (56) | andri_firman_saputra | 00:00:00 | 28 rows

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;
```