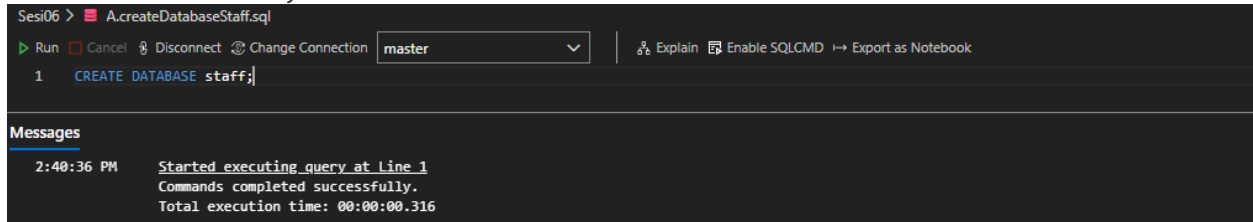


Nama : Gilang Trisetya Indrawan
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Tool : Azure Data Studio, SQL SERVER 2017

A. Buat Database staff

Query :

```
CREATE DATABASE staff;
```

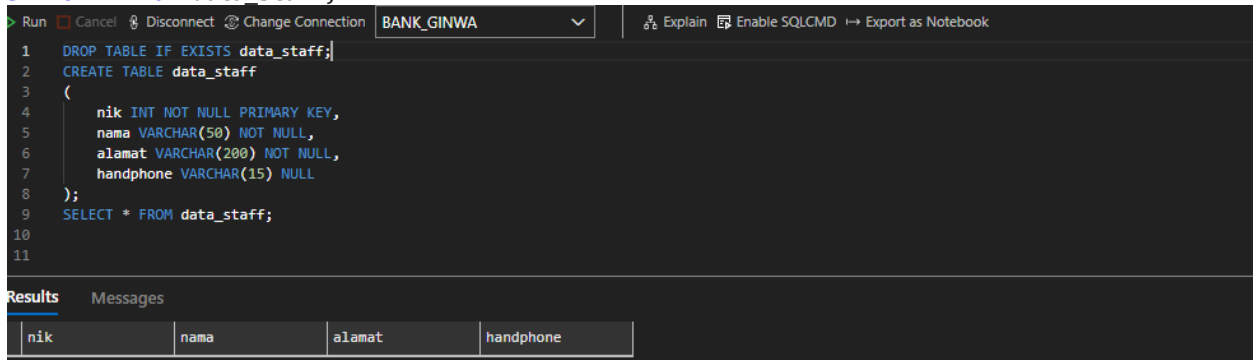


The screenshot shows the SQL Server query editor in Azure Data Studio. The query 'CREATE DATABASE staff;' is entered and executed. The Messages pane at the bottom shows a success message: 'Started executing query at Line 1. Commands completed successfully. Total execution time: 00:00:00.316'.

B. Buat table data_staff;

Query:

```
DROP TABLE IF EXISTS data_staff;  
CREATE TABLE data_staff  
(  
    nik INT NOT NULL PRIMARY KEY,  
    nama VARCHAR(50) NOT NULL,  
    alamat VARCHAR(200) NOT NULL,  
    handphone VARCHAR(15) NULL  
);  
SELECT * FROM data_staff;
```



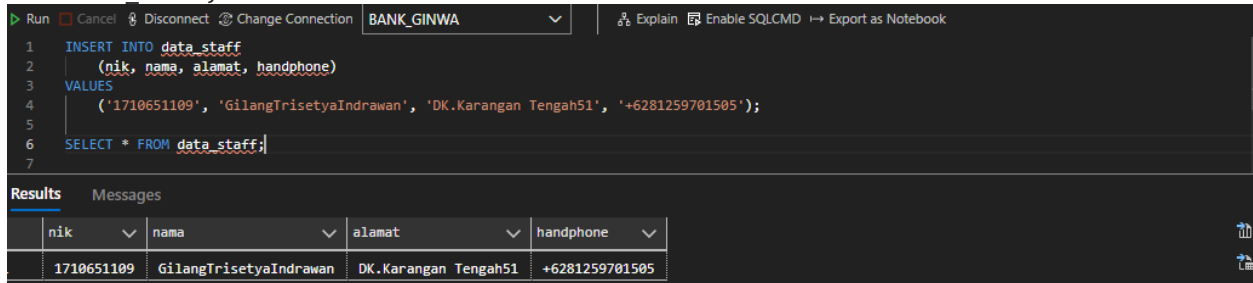
The screenshot shows the SQL Server query editor in Azure Data Studio. The query 'DROP TABLE IF EXISTS data_staff; CREATE TABLE data_staff (nik INT NOT NULL PRIMARY KEY, nama VARCHAR(50) NOT NULL, alamat VARCHAR(200) NOT NULL, handphone VARCHAR(15) NULL); SELECT * FROM data_staff;' is entered and executed. The Results pane at the bottom shows the table structure with columns: nik, nama, alamat, and handphone.

nik	nama	alamat	handphone
-----	------	--------	-----------

C.Insert 1 data

Query:

```
INSERT INTO data_staff
(nik, nama, alamat, handphone)
VALUES
('1710651109', 'GilangTrisetyaIndrawan', 'DK.Karangan Tengah51', '+6281259701505');
SELECT *
FROM data_staff;
```



The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
1 INSERT INTO data_staff
2 (nik, nama, alamat, handphone)
3 VALUES
4 ('1710651109', 'GilangTrisetyaIndrawan', 'DK.Karangan Tengah51', '+6281259701505');
5
6 SELECT * FROM data_staff;
```

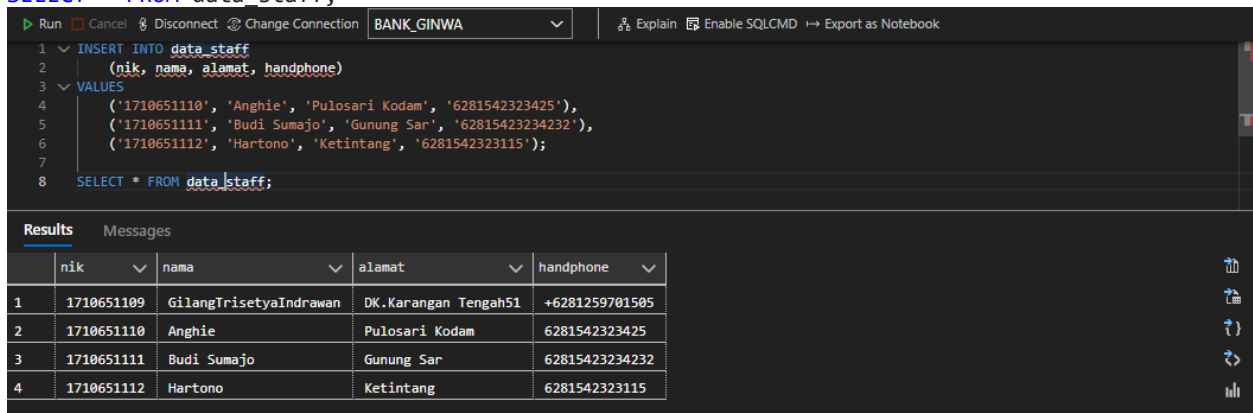
The results pane shows a table with the following data:

nik	nama	alamat	handphone
1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505

D.insert 3 data

Query:

```
INSERT INTO data_staff
(nik, nama, alamat, handphone)
VALUES
('1710651110', 'Anghie', 'Pulosari Kodam', '6281542323425'),
('1710651111', 'Budi Sumajo', 'Gunung Sar', '62815423234232'),
('1710651112', 'Hartono', 'Ketintang', '6281542323115');
SELECT * FROM data_staff;
```



The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the following SQL code:

```
1 INSERT INTO data_staff
2 (nik, nama, alamat, handphone)
3 VALUES
4 ('1710651110', 'Anghie', 'Pulosari Kodam', '6281542323425'),
5 ('1710651111', 'Budi Sumajo', 'Gunung Sar', '62815423234232'),
6 ('1710651112', 'Hartono', 'Ketintang', '6281542323115');
7
8 SELECT * FROM data_staff;
```

The results pane shows a table with the following data:

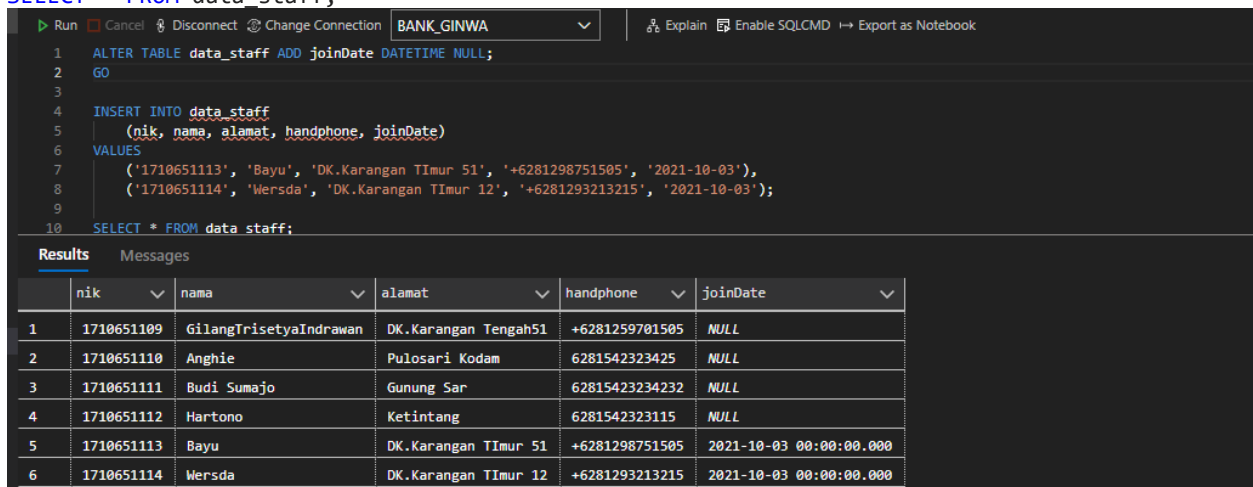
nik	nama	alamat	handphone
1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505
1710651110	Anghie	Pulosari Kodam	6281542323425
1710651111	Budi Sumajo	Gunung Sar	62815423234232
1710651112	Hartono	Ketintang	6281542323115

E. Membuat kolom joinDate di table data_staff, lalu insert data

Query:

```
ALTER TABLE data_staff ADD joinDate DATETIME NULL;  
GO
```

```
INSERT INTO data_staff  
    (nik, nama, alamat, handphone, joinDate)  
VALUES  
    ('1710651113', 'Bayu', 'DK.Karangan Timur 51', '+6281298751505', '2021-10-03'),  
    ('1710651114', 'Wersda', 'DK.Karangan Timur 12', '+6281293213215', '2021-10-03');  
SELECT * FROM data_staff;
```



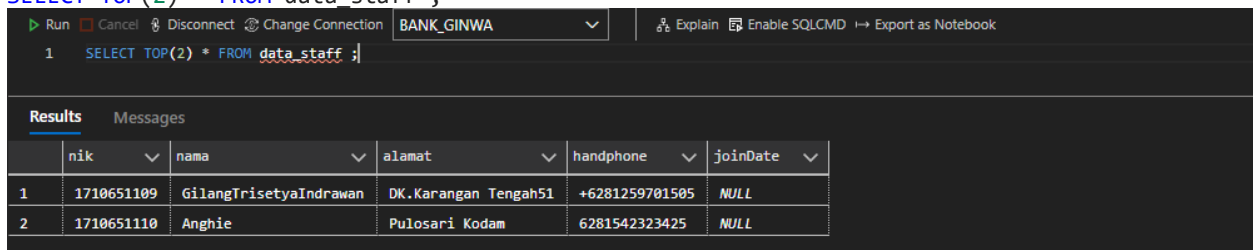
The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the executed SQL query. The bottom pane shows the 'Results' tab with a table containing 6 rows of data. The columns are nik, nama, alamat, handphone, and joinDate. The data is as follows:

	nik	nama	alamat	handphone	joinDate
1	1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505	NULL
2	1710651110	Anghie	Pulosari Kodam	6281542323425	NULL
3	1710651111	Budi Sumajo	Gunung Sar	62815423234232	NULL
4	1710651112	Hartono	Ketintang	6281542323115	NULL
5	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000
6	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000

F.Cari 2 data mulai dari atas

Query:

```
SELECT TOP(2) * FROM data_staff ;
```



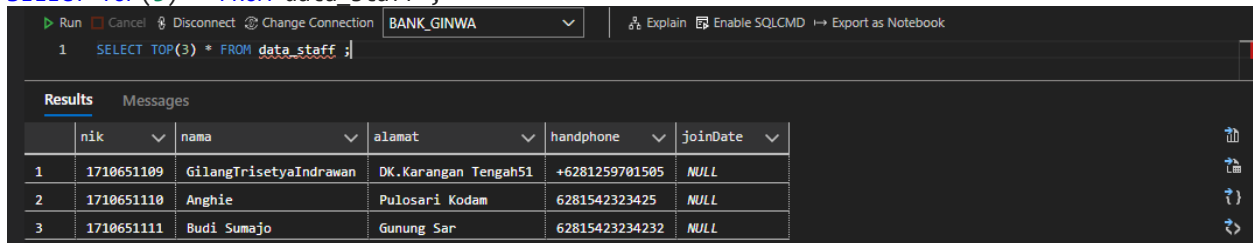
The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays the executed query. The bottom pane shows the 'Results' tab with a table containing 2 rows of data. The columns are nik, nama, alamat, handphone, and joinDate. The data is as follows:

	nik	nama	alamat	handphone	joinDate
1	1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505	NULL
2	1710651110	Anghie	Pulosari Kodam	6281542323425	NULL

G. Cari 3 data mulai dari atas

Query:

```
SELECT TOP(3) * FROM data_staff ;
```



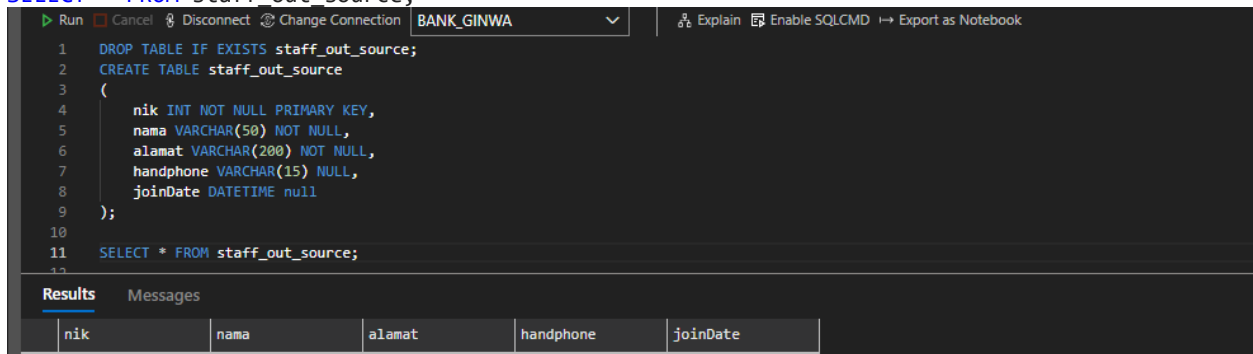
	nik	nama	alamat	handphone	joinDate
1	1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505	NULL
2	1710651110	Anghie	Pulosari Kodam	6281542323425	NULL
3	1710651111	Budi Sumajo	Gunung Sar	62815423234232	NULL

H. Membuat table staff_out_source

Query:

```
DROP TABLE IF EXISTS staff_out_source;
CREATE TABLE staff_out_source
(
    nik INT NOT NULL PRIMARY KEY,
    nama VARCHAR(50) NOT NULL,
    alamat VARCHAR(200) NOT NULL,
    handphone VARCHAR(15) NULL,
    joinDate DATETIME null
);
```

```
SELECT * FROM staff_out_source;
```



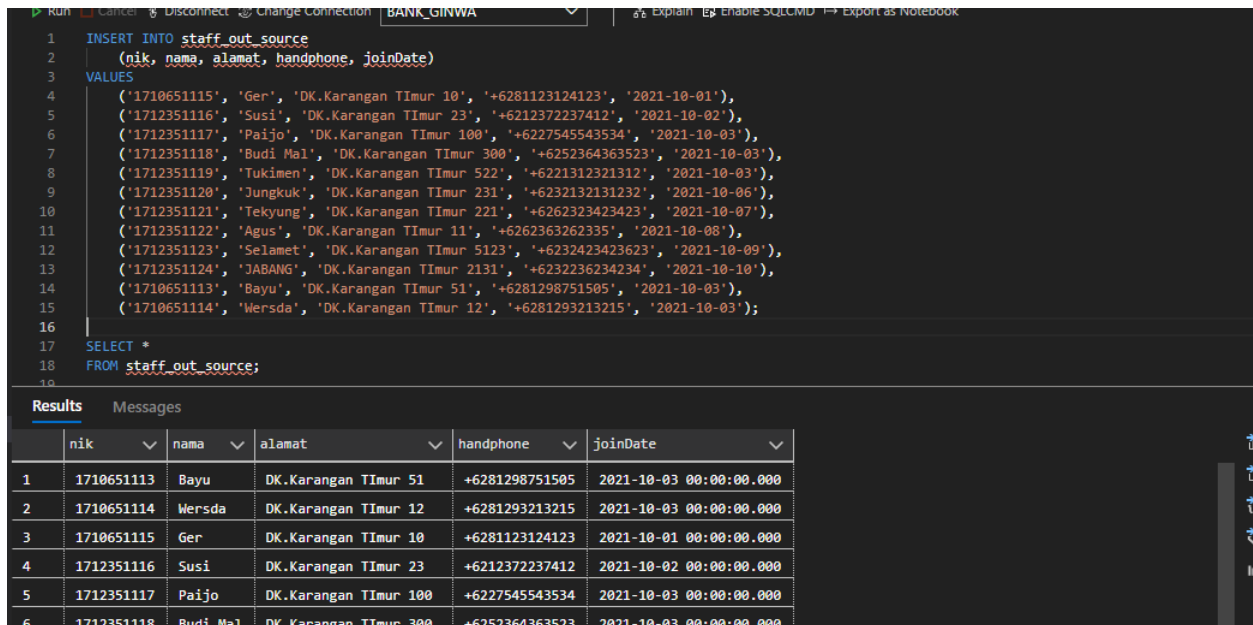
nik	nama	alamat	handphone	joinDate
-----	------	--------	-----------	----------

I. Insert multiple data untuk table staff_out_source

Query:

```
INSERT INTO staff_out_source
(nik, nama, alamat, handphone, joinDate)
VALUES
('1710651115', 'Ger', 'DK.Karangan Timur 10', '+6281123124123', '2021-10-01'),
('1712351116', 'Susi', 'DK.Karangan Timur 23', '+6212372237412', '2021-10-02'),
('1712351117', 'Paijo', 'DK.Karangan Timur 100', '+6227545543534', '2021-10-03'),
('1712351118', 'Budi Mal', 'DK.Karangan Timur 300', '+6252364363523', '2021-10-03'),
('1712351119', 'Tukimen', 'DK.Karangan Timur 522', '+6221312321312', '2021-10-03'),
('1712351120', 'Jungkuk', 'DK.Karangan Timur 231', '+6232132131232', '2021-10-06'),
('1712351121', 'Tekyung', 'DK.Karangan Timur 221', '+6262323423423', '2021-10-07'),
('1712351122', 'Agus', 'DK.Karangan Timur 11', '+6262363262335', '2021-10-08'),
('1712351123', 'Selamet', 'DK.Karangan Timur 5123', '+6232423423623', '2021-10-09'),
('1712351124', 'JABANG', 'DK.Karangan Timur 2131', '+6232236234234', '2021-10-10'),
('1710651113', 'Bayu', 'DK.Karangan Timur 51', '+6281298751505', '2021-10-03'),
('1710651114', 'Wersda', 'DK.Karangan Timur 12', '+6281293213215', '2021-10-03');

SELECT *
FROM staff_out_source;
```



The screenshot shows a SQL IDE interface with a query editor and a results pane. The query editor contains the same INSERT and SELECT statements as shown in the previous block. The results pane displays the output of the SELECT statement, showing a table with 6 rows of data. The table has columns for nik, nama, alamat, handphone, and joinDate. The data is sorted by joinDate in ascending order.

	nik	nama	alamat	handphone	joinDate
1	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000
2	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000
3	1710651115	Ger	DK.Karangan Timur 10	+6281123124123	2021-10-01 00:00:00.000
4	1712351116	Susi	DK.Karangan Timur 23	+6212372237412	2021-10-02 00:00:00.000
5	1712351117	Paijo	DK.Karangan Timur 100	+6227545543534	2021-10-03 00:00:00.000
6	1712351118	Budi Mal	DK.Karangan Timur 300	+6252364363523	2021-10-03 00:00:00.000

J. Menggabungkan 2 table memakai Inner Join berdasarkan kolom joinDate,

Query:

```
SELECT * FROM data_staff AS ds  
INNER JOIN staff_out_source AS sos ON ds.joinDate=sos.joinDate;
```

BANK_GINWA										
Run Cancel Disconnect Change Connection Explain Enable SQLCMD Export as Notebook										
1 SELECT * FROM data_staff AS ds 2 INNER JOIN staff_out_source AS sos ON ds.joinDate=sos.joinDate;										
Results Messages										
	nik	nama	alamat	handphone	joinDate	nik	nama	alamat	handphone	
1	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1710651113	Bayu	DK.Karangan Timur 51	+62812987	
2	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1710651113	Bayu	DK.Karangan Timur 51	+62812987	
3	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1710651114	Wersda	DK.Karangan Timur 12	+62812932	
4	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1710651114	Wersda	DK.Karangan Timur 12	+62812932	
5	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1712351117	Paijo	DK.Karangan Timur 100	+62275455	
6	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1712351117	Paijo	DK.Karangan Timur 100	+62275455	
7	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1712351118	Budi Mal	DK.Karangan Timur 300	+62523643	
8	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1712351118	Budi Mal	DK.Karangan Timur 300	+62523643	
9	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1712351119	Tukimen	DK.Karangan Timur 522	+62213121	
10	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1712351119	Tukimen	DK.Karangan Timur 522	+62213121	

K. . Menggabungkan 2 table memakai Right Join berdasarkan kolom nik,

Query:

```
SELECT * FROM data_staff AS ds  
RIGHT JOIN staff_out_source AS sos ON ds.nik=sos.nik;
```

BANK_GINWA										
Run Cancel Disconnect Change Connection Explain Enable SQLCMD Export as Notebook										
1 SELECT * FROM data_staff AS ds 2 RIGHT JOIN staff_out_source AS sos ON ds.nik=sos.nik; 3										
Results Messages										
	nik	nama	alamat	handphone	joinDate	nik	nama	alamat	handphone	
1	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1710651113	Bayu	DK.Karangan Timur 51	+628129875	
2	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1710651114	Wersda	DK.Karangan Timur 12	+628129321	
3	NULL	NULL	NULL	NULL	NULL	1710651115	Ger	DK.Karangan Timur 10	+628112312	
4	NULL	NULL	NULL	NULL	NULL	1712351116	Susi	DK.Karangan Timur 23	+621237223	
5	NULL	NULL	NULL	NULL	NULL	1712351117	Paijo	DK.Karangan Timur 100	+622754554	

L. Menggabungkan 2 table memakai Left Join berdasarkan kolom nik,

Query:

```
SELECT * FROM data_staff AS ds  
LEFT JOIN staff_out_source AS sos ON ds.nik=sos.nik;
```

```

1 SELECT * FROM data_staff AS ds
2 LEFT JOIN staff_out_source AS sos ON ds.nik=sos.nik;
3

```

Results

Messages

	nik	nama	alamat	handphone	joinDate	nik	nama	alamat
1	1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505	NULL	NULL	NULL	NULL
2	1710651110	Anghie	Pulosari Kodam	6281542323425	NULL	NULL	NULL	NULL
3	1710651111	Budi Sumajo	Gunung Sar	62815423234232	NULL	NULL	NULL	NULL
4	1710651112	Hartono	Ketintang	6281542323115	NULL	NULL	NULL	NULL
5	1710651113	Bayu	DK.Karangan Timur 51	+6281298751505	2021-10-03 00:00:00.000	1710651113	Bayu	DK.Karangan Timur 51
6	1710651114	Wersda	DK.Karangan Timur 12	+6281293213215	2021-10-03 00:00:00.000	1710651114	Wersda	DK.Karangan Timur 12

M.Menggabungkan 2 tabel menggunakan union all

Query:

```
SELECT * FROM data_staff  
UNION ALL  
SELECT * FROM staff_out_source;
```

Run

Cancel

Disconnect

Change Connection

staff

Explain

Enable SQLCMD

Export as Notebook

1

SELECT * FROM data_staff

2

UNION ALL

3

SELECT * FROM staff_out_source;

Results

Messages

	nik	nama	alamat	handphone	joinDate
1	1710651109	GilangTrisetyaIndrawan	DK.Karangan Tengah51	+6281259701505	NULL
2	1710651110	Anghie	Pulosari Kodam	6281542323425	NULL
3	1710651111	Budi Sumajo	Gunung Sar	62815423234232	NULL
4	1710651112	Hartono	Ketintang	6281542323115	NULL
5	1710651113	Bayu	DK.Karangan TIMur 51	+6281298751505	2021-10-03 00:00:00.000
6	1710651114	Wersda	DK.Karangan TIMur 12	+6281293213215	2021-10-03 00:00:00.000
7	1710651113	Bayu	DK.Karangan TIMur 51	+6281298751505	2021-10-03 00:00:00.000
8	1710651114	Wersda	DK.Karangan TIMur 12	+6281293213215	2021-10-03 00:00:00.000
9	1710651115	Ger	DK.Karangan TIMur 10	+6281123124123	2021-10-01 00:00:00.000
10	1712351116	Susi	DK.Karangan TIMur 23	+6212372237412	2021-10-02 00:00:00.000
11	1712351117	Paijo	DK.Karangan TIMur 100	+6227545543534	2021-10-03 00:00:00.000
12	1712351118	Budi Ma1	DK.Karangan TIMur 300	+6252364363523	2021-10-03 00:00:00.000
13	1712351119	Tukimen	DK.Karangan TIMur 522	+6221312321312	2021-10-03 00:00:00.000
14	1712351120	Jungkuk	DK.Karangan TIMur 231	+6232132131232	2021-10-06 00:00:00.000
15	1712351121	Tekyung	DK.Karangan TIMur 221	+6262323423423	2021-10-07 00:00:00.000
16	1712351122	Agus	DK.Karangan TIMur 11	+6262363262335	2021-10-08 00:00:00.000
17	1712351123	Selamet	DK.Karangan TIMur 51	+6232423423623	2021-10-09 00:00:00.000
18	1712351124	JABANG	DK.Karangan TIMur 21	+6232236234234	2021-10-10 00:00:00.000