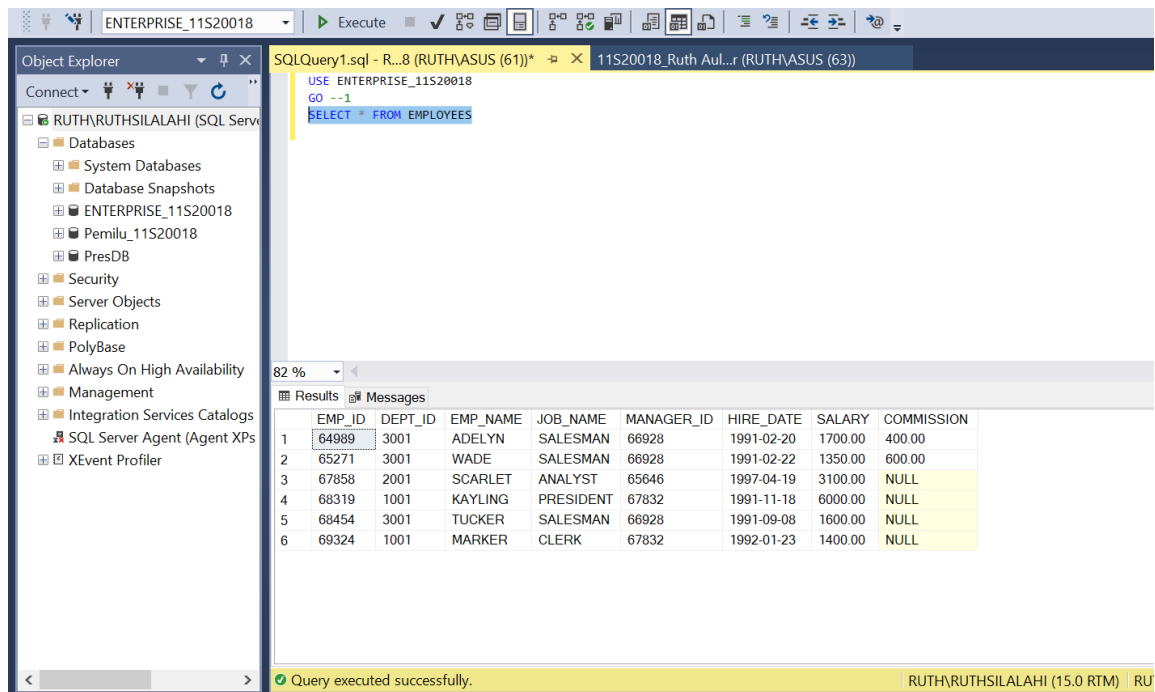


1. Tampilkan semua data pegawai!



The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the server structure for RUTH\RUTHSILALAH (SQL Server). The central pane shows a query window with the following SQL code:

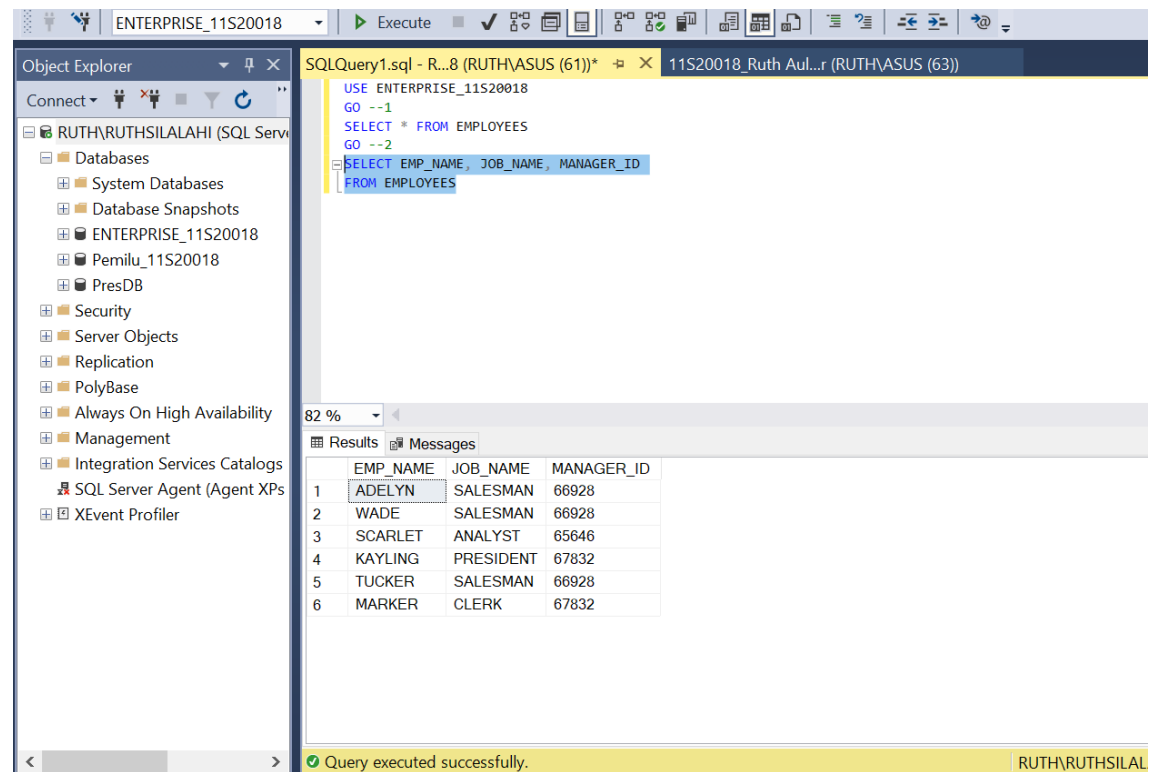
```
USE ENTERPRISE_11S20018
GO --1
SELECT * FROM EMPLOYEES
```

The Results tab displays the query output as a table with 9 columns: EMP_ID, DEPT_ID, EMP_NAME, JOB_NAME, MANAGER_ID, HIRE_DATE, SALARY, and COMMISSION. The data is as follows:

EMP_ID	DEPT_ID	EMP_NAME	JOB_NAME	MANAGER_ID	HIRE_DATE	SALARY	COMMISSION
64989	3001	ADELYN	SALESMAN	66928	1991-02-20	1700.00	400.00
65271	3001	WADE	SALESMAN	66928	1991-02-22	1350.00	600.00
67858	2001	SCARLET	ANALYST	65646	1997-04-19	3100.00	NULL
68319	1001	KAYLING	PRESIDENT	67832	1991-11-18	6000.00	NULL
68454	3001	TUCKER	SALESMAN	66928	1991-09-08	1600.00	NULL
69324	1001	MARKER	CLERK	67832	1992-01-23	1400.00	NULL

The status bar at the bottom indicates "Query executed successfully." and "RUTH\RUTHSILALAH (15.0 RTM) | RU".

2. Tampilkan nama pegawai, nama pekerjaan, dan id manager dari tabel employees!



The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the server structure for RUTH\RUTHSILALAH (SQL Server). The central pane shows a query window with the following SQL code:

```
USE ENTERPRISE_11S20018
GO --1
SELECT * FROM EMPLOYEES
GO --2
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
```

The Results tab displays the query output as a table with 4 columns: EMP_NAME, JOB_NAME, and MANAGER_ID. The data is as follows:

EMP_NAME	JOB_NAME	MANAGER_ID
ADELYN	SALESMAN	66928
WADE	SALESMAN	66928
SCARLET	ANALYST	65646
KAYLING	PRESIDENT	67832
TUCKER	SALESMAN	66928
MARKER	CLERK	67832

The status bar at the bottom indicates "Query executed successfully." and "RUTH\RUTHSILALAH (15.0 RTM) | RU".

3. Tampilkan nama pegawai, nama pekerjaan, dan id manager dari tabel employees yang memiliki department id 1001!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'RUTH\RUTHSILALAH (SQL Serv...'. The central pane shows a query window with the following SQL code:

```
USE ENTERPRISE_11S20018
GO --1
SELECT * FROM EMPLOYEES
GO --2
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
GO --3
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
WHERE DEPT_ID = 1001
```

The Results pane at the bottom displays the following data:

	EMP_NAME	JOB_NAME	MANAGER_ID
1	KAYLING	PRESIDENT	67832
2	MARKER	CLERK	67832

The status bar at the bottom indicates 'Query executed successfully.' and 'RUTH\RUTHSILALAH (15.0 RTM)'.

4. Tampilkan nama department dan lokasi department dengan format penamaan atribut "NamaDepartement" dan "LokasiDepartment".

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'RUTH\RUTHSILALAH (SQL Serv...'. The central pane shows a query window with the following SQL code:

```
USE ENTERPRISE_11S20018
GO --1
SELECT * FROM EMPLOYEES
GO --2
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
GO --3
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
WHERE DEPT_ID = 1001
GO --4
SELECT DEPT_NAME "NAMADEPARTEMENT", DEPT_LOCATION "LOKASIDEPARTEMENT"
FROM DEPARTMENT
```

The Results pane at the bottom displays the following data:

	NAMADEPARTEMENT	LOKASIDEPARTEMENT
1	FINANCE	SYDNEY
2	AUDIT	MELBOURNE
3	MARKETING	PERTH
4	PRODUCTION	AUCKLAND

The status bar at the bottom indicates 'Query executed successfully.' and 'RUTH\RUTHSILALAH (15.0 RTM)'.

5. Tampilkan nama pegawai, salary, dan salary yang telah mendapatkan kenaikan 20% (simpan sebagai “SalaryIncrease”) yang memiliki pekerjaan sebagai SALESMAN!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for RUTH\RUTHSILALAH (SQL Serv...). The central pane shows a query window with the following SQL code:

```
GO --2
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
GO --3
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
WHERE DEPT_ID = 1001
GO --4
SELECT DEPT_NAME "NAMA DEPARTEMEN", DEPT_LOCATION "LOKASI DEPARTEMEN"
FROM DEPARTMENT
GO --5
SELECT EMP_NAME, SALARY, SALARY+(SALARY*0.2) "SALARYINCREASE"
FROM EMPLOYEES
WHERE JOB_NAME = 'SALESMAN'
```

The Results pane shows the output of the query:

	EMP_NAME	SALARY	SALARYINCREASE
1	ADELYN	1700.00	2040.000
2	WADE	1350.00	1620.000
3	TUCKER	1600.00	1920.000

The status bar at the bottom indicates "Query executed successfully." and "RUTH\RUTHSILALAH (15.0 RTM)".

6. Tampilkan id pegawai, nama pegawai, id manager, dan salary yang memiliki salary kurang dari 3000! Perhatikan untuk penamaan atribut sesuai dengan hasil dari output.

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for RUTH\RUTHSILALAH (SQL Serv...). The central pane shows a query window with the following SQL code:

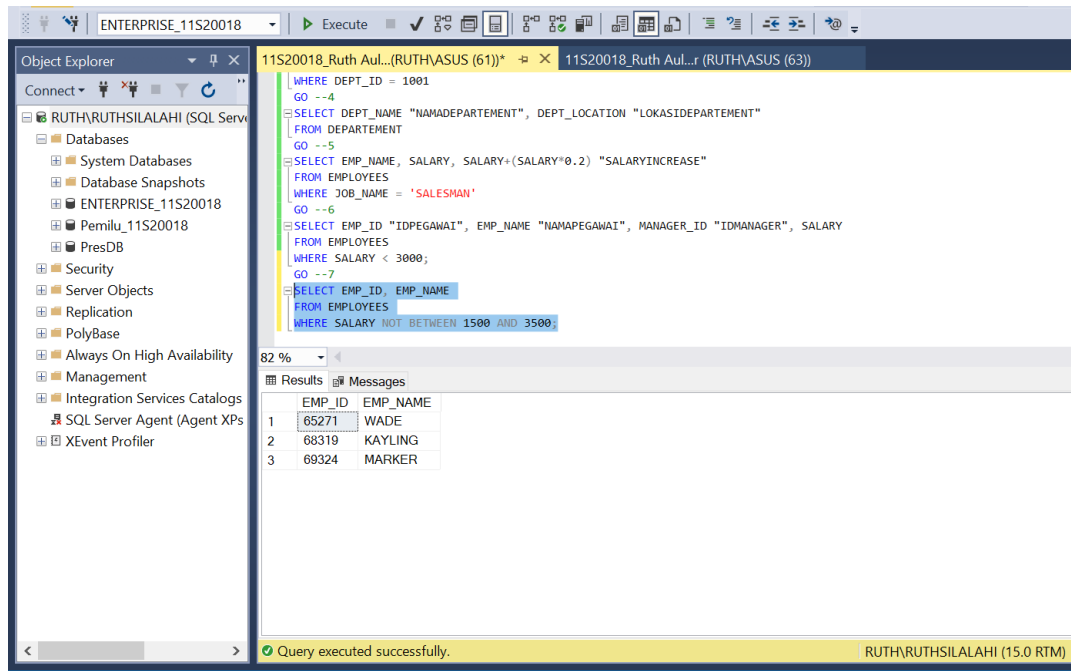
```
GO --2
SELECT EMP_NAME, JOB_NAME, MANAGER_ID
FROM EMPLOYEES
WHERE DEPT_ID = 1001
GO --4
SELECT DEPT_NAME "NAMA DEPARTEMEN", DEPT_LOCATION "LOKASI DEPARTEMEN"
FROM DEPARTMENT
GO --5
SELECT EMP_NAME, SALARY, SALARY+(SALARY*0.2) "SALARYINCREASE"
FROM EMPLOYEES
WHERE JOB_NAME = 'SALESMAN'
GO --6
SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI", MANAGER_ID "IDMANAGER", SALARY
FROM EMPLOYEES
WHERE SALARY < 3000
```

The Results pane shows the output of the query:

	IDPEGAWAI	NAMAPEGAWAI	IDMANAGER	SALARY
1	64989	ADELYN	66928	1700.00
2	65271	WADE	66928	1350.00
3	68454	TUCKER	66928	1600.00
4	69324	MARKER	67832	1400.00

The status bar at the bottom indicates "Query executed successfully." and "RUTH\RUTHSILALAH (15.0 RTM)".

7. Tampilkan id pegawai dan nama pegawai yang gajinya tidak dalam kisaran 3500 hingga 1500!



The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'RUTH\RUTHSILALAH (SQL Serv...'. The central pane shows a query window with the following SQL code:

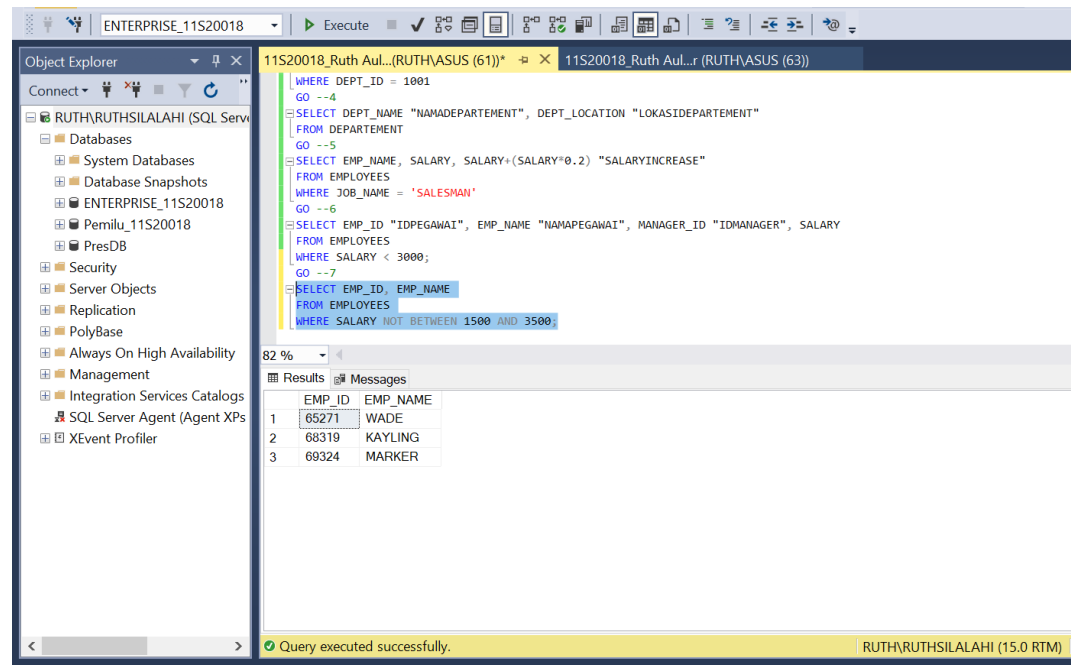
```
WHERE DEPT_ID = 1001
GO --4
SELECT DEPT_NAME "NAMEDEPARTEMEN", DEPT_LOCATION "LOKASIDEPARTEMEN"
FROM DEPARTEMEN
GO --5
SELECT EMP_NAME, SALARY, SALARY+(SALARY*0.2) "SALARYINCREASE"
FROM EMPLOYEES
WHERE JOB_NAME = 'SALESMAN'
GO --6
SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI", MANAGER_ID "IDMANAGER", SALARY
FROM EMPLOYEES
WHERE SALARY < 3000;
GO --7
SELECT EMP_ID, EMP_NAME
FROM EMPLOYEES
WHERE SALARY NOT BETWEEN 1500 AND 3500;
```

The Results pane shows the following data:

EMP_ID	EMP_NAME
65271	WADE
68319	KAYLING
69324	MARKER

The status bar at the bottom indicates 'Query executed successfully.' and 'RUTH\RUTHSILALAH (15.0 RTM)'.

8. Tampilkan Id pegawai, nama pegawai dan tanggal perekrutan. Urutkan data berdasarkan tanggal perekrutan terbaru!



The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'RUTH\RUTHSILALAH (SQL Serv...'. The central pane shows a query window with the following SQL code:

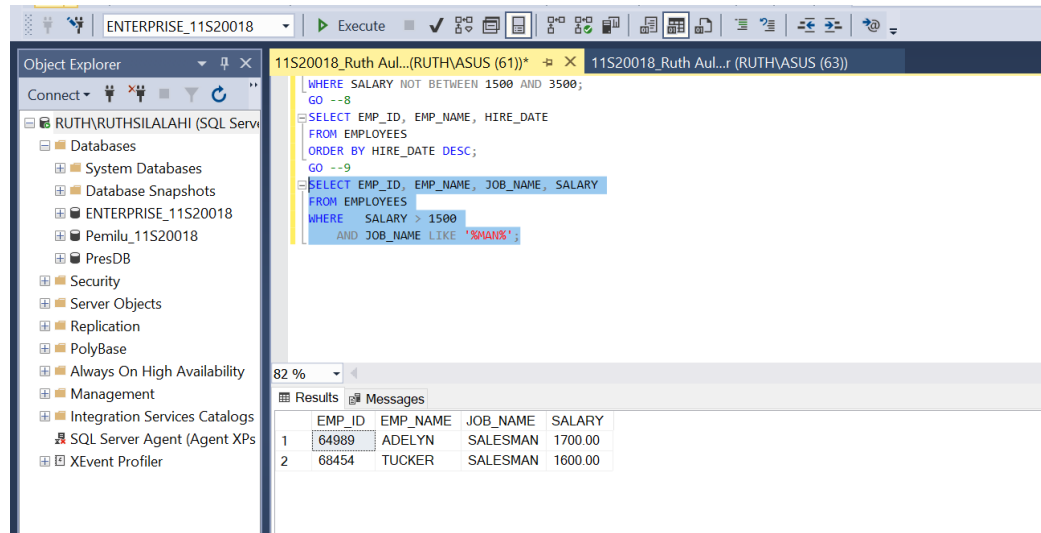
```
WHERE DEPT_ID = 1001
GO --4
SELECT DEPT_NAME "NAMEDEPARTEMEN", DEPT_LOCATION "LOKASIDEPARTEMEN"
FROM DEPARTEMEN
GO --5
SELECT EMP_NAME, SALARY, SALARY+(SALARY*0.2) "SALARYINCREASE"
FROM EMPLOYEES
WHERE JOB_NAME = 'SALESMAN'
GO --6
SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI", MANAGER_ID "IDMANAGER", SALARY
FROM EMPLOYEES
WHERE SALARY < 3000;
GO --7
SELECT EMP_ID, EMP_NAME
FROM EMPLOYEES
WHERE SALARY NOT BETWEEN 1500 AND 3500;
```

The Results pane shows the following data:

EMP_ID	EMP_NAME
65271	WADE
68319	KAYLING
69324	MARKER

The status bar at the bottom indicates 'Query executed successfully.' and 'RUTH\RUTHSILALAH (15.0 RTM)'.

9. Tampilkan id pegawai, nama pegawai, nama pekerjaan, dan salary yang memiliki salary di atas 1500 dan nama pekerjaannya mengandung kata MAN!



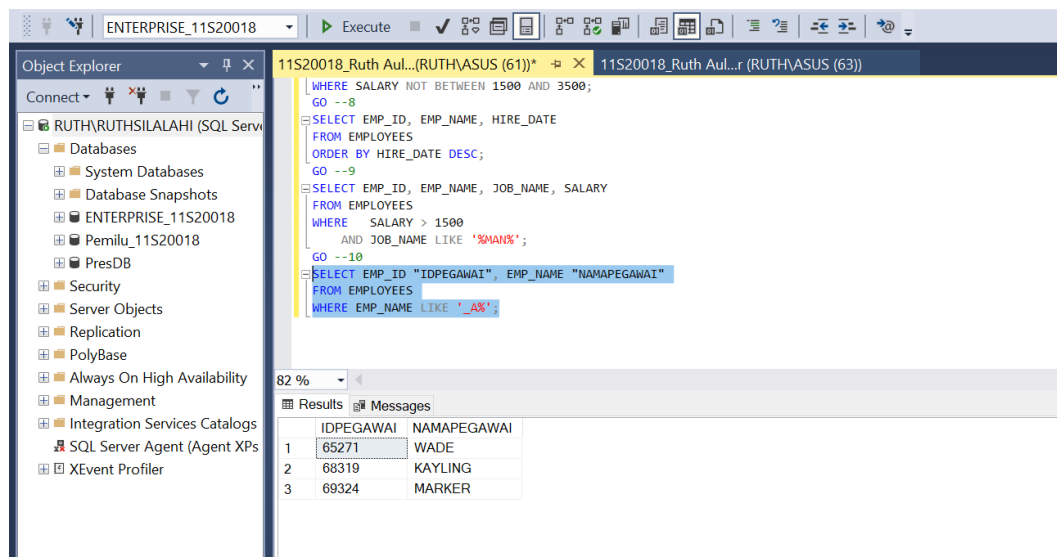
The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the Object Explorer for the RUTH\RUTHSILALAH (SQL Server) instance. The right pane shows a query window with the following SQL code:

```
WHERE SALARY NOT BETWEEN 1500 AND 3500;  
GO --8  
SELECT EMP_ID, EMP_NAME, HIRE_DATE  
FROM EMPLOYEES  
ORDER BY HIRE_DATE DESC;  
GO --9  
SELECT EMP_ID, EMP_NAME, JOB_NAME, SALARY  
FROM EMPLOYEES  
WHERE SALARY > 1500  
AND JOB_NAME LIKE '%MAN%';  
GO --10
```

The results pane shows the following data:

EMP_ID	EMP_NAME	JOB_NAME	SALARY
64989	ADELYN	SALESMAN	1700.00
68454	TUCKER	SALESMAN	1600.00

10. Tampilkan semua nama pegawai beserta id pegawai dengan huruf kedua adalah A. Query menghasilkan output id pegawai dan nama pegawai sebagai “IDPegawai” dan “NamaPegawai”!



The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the Object Explorer for the RUTH\RUTHSILALAH (SQL Server) instance. The right pane shows a query window with the following SQL code:

```
WHERE SALARY NOT BETWEEN 1500 AND 3500;  
GO --8  
SELECT EMP_ID, EMP_NAME, HIRE_DATE  
FROM EMPLOYEES  
ORDER BY HIRE_DATE DESC;  
GO --9  
SELECT EMP_ID, EMP_NAME, JOB_NAME, SALARY  
FROM EMPLOYEES  
WHERE SALARY > 1500  
AND JOB_NAME LIKE '%MAN%';  
GO --10  
SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI"  
FROM EMPLOYEES  
WHERE EMP_NAME LIKE '%_A%';  
GO --11
```

The results pane shows the following data:

IDPEGAWAI	NAMAPEGAWAI
65271	WADE
68319	KAYLING
69324	MARKER

11. Tampilkan jumlah pegawai (simpan sebagai “Jumlah”) berdasarkan nama pekerjaannya!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'ENTERPRISE_11S20018'. The central query window shows a T-SQL script that filters employees by salary and job name, then counts them by job name. The results pane at the bottom displays the output of the query.

```

--11S20018_Ruth Aul... (RUTH\ASUS (61))
--11S20018_Ruth Aul...r (RUTH\ASUS (63))

FROM EMPLOYEES
ORDER BY HIRE_DATE DESC;
GO --9
SELECT EMP_ID, EMP_NAME, JOB_NAME, SALARY
FROM EMPLOYEES
WHERE SALARY > 1500
AND JOB_NAME LIKE '%MAN%';
GO --10
SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI"
FROM EMPLOYEES
WHERE EMP_NAME LIKE '_A%';
GO --11
SELECT JOB_NAME, COUNT(JOB_NAME) "JUMLAH"
FROM EMPLOYEES
GROUP BY JOB_NAME

```

	JOB_NAME	JUMLAH
1	ANALYST	1
2	CLERK	1
3	PRESIDENT	1
4	SALESMAN	3

12. Tentukan selisih antara gaji tertinggi dan gaji terendah dari pegawai. Simpan hasil dengan attribute “Difference”.

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'ENTERPRISE_11S20018'. The central query window shows a T-SQL script that calculates the difference between the maximum and minimum salary of employees. The results pane at the bottom displays the output of the query.

```

--11S20018_Ruth Aul... (RUTH\ASUS (61))
--11S20018_Ruth Aul...r (RUTH\ASUS (63))

WHERE SALARY > 1500
AND JOB_NAME LIKE '%MAN%';
GO --10
SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI"
FROM EMPLOYEES
WHERE EMP_NAME LIKE '_A%';
GO --11
SELECT JOB_NAME, COUNT(JOB_NAME) "JUMLAH"
FROM EMPLOYEES
GROUP BY JOB_NAME
GO --12
SELECT (MAX(SALARY) - MIN(SALARY)) "DIFFERENCE"
FROM EMPLOYEES

```

	DIFFERENCE
1	4650.00

13. Tampilkan rata-rata gaji dari pegawai (disimpan sebagai “AVGgaji”) yang dikelompokkan berdasarkan nama pekerjaannya!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'ENTERPRISE_11S20018'. The central query window contains the following SQL code:

```

SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI"
FROM EMPLOYEES
WHERE EMP_NAME LIKE '_A%';
GO --11
SELECT JOB_NAME, COUNT(JOB_NAME) "JUMLAH"
FROM EMPLOYEES
GROUP BY JOB_NAME
GO --12
SELECT (MAX(SALARY)-MIN(SALARY)) "DIFFERENCE"
FROM EMPLOYEES
GO --13
SELECT JOB_NAME, AVG(SALARY) "AVGgaji"
FROM EMPLOYEES
GROUP BY JOB_NAME

```

The Results pane at the bottom displays the output of the final query, showing the average salary for each job name:

JOB_NAME	AVGgaji
ANALYST	3100.000000
CLERK	1400.000000
PRESIDENT	6000.000000
SALESMAN	1550.000000

14. Tampilkan nama pekerjaan yang diakhiri dengan huruf “T”, id manager, dan jumlah salary yang diurutkan berdasarkan jumlah salary terendah!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'ENTERPRISE_11S20018'. The central query window contains the following SQL code:

```

SELECT JOB_NAME, COUNT(JOB_NAME) "JUMLAH"
FROM EMPLOYEES
GROUP BY JOB_NAME
GO --12
SELECT (MAX(SALARY)-MIN(SALARY)) "DIFFERENCE"
FROM EMPLOYEES
GO --13
SELECT JOB_NAME, AVG(SALARY) "AVGgaji"
FROM EMPLOYEES
GROUP BY JOB_NAME
GO --14
SELECT JOB_NAME "NAMAPEKERJAAN", MANAGER_ID "IDMANAGER", SALARY "JUMLAHSALARY"
FROM EMPLOYEES
WHERE JOB_NAME LIKE '%T'
ORDER BY SALARY ASC;

```

The Results pane at the bottom displays the output of the final query, showing job names ending in 'T' ordered by salary:

NAMAPEKERJAAN	IDMANAGER	JUMLAHSALARY
ANALYST	65646	3100.00
PRESIDENT	67832	6000.00

15. Tampilkan nama pekerjaan, id manager, dan jumlah salary yang dimana jumlah salary lebih besar dari 1500. Kelompokkan berdasarkan nama pekerjaan dan id manager serta urutkan berdasarkan jumlah salary yang tertinggi!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'RUTH\RUTHSILALAH (SQL Serv...'. The central query window contains the following SQL code:

```
FROM EMPLOYEES
WHERE JOB_NAME LIKE '%T'
ORDER BY SALARY ASC;
GO --15

SELECT JOB_NAME "NAMAPEKERJAAN", DEPT_ID "IDMANAGER", SUM(SALARY) "JUMLAHSALARY"
FROM EMPLOYEES
WHERE SALARY > 1500
GROUP BY JOB_NAME, DEPT_ID
GO --16

SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI", JOB_NAME "NAMAPEKERJAAN", HIRE_DATE "TANGGALPEREKRUTAN", SALARY "GA"
FROM EMPLOYEES
WHERE COMMISSION IS NULL;
```

The Results tab shows the following data:

	NAMAPEKERJAAN	IDMANAGER	JUMLAHSALARY
1	PRESIDENT	1001	6000.00
2	ANALYST	2001	3100.00
3	SALESMAN	3001	3300.00

16. Tampilkan id pegawai, nama pegawai, nama pekerjaan, tanggal perekrutan, dan salary dari seluruh pegawai yang tidak memiliki komisi (commision)!

The screenshot shows the SQL Server Enterprise Manager interface. The Object Explorer on the left displays the database structure for 'RUTH\RUTHSILALAH (SQL Serv...'. The central query window contains the following SQL code:

```
WHERE SALARY > 1500
ORDER BY JOB_NAME
GO --16

SELECT EMP_ID "IDPEGAWAI", EMP_NAME "NAMAPEGAWAI", JOB_NAME "NAMAPEKERJAAN", HIRE_DATE "TANGGALPEREKRUTAN", SALARY "GA"
FROM EMPLOYEES
WHERE COMMISSION IS NULL;
```

The Results tab shows the following data:

	IDPEGAWAI	NAMAPEGAWAI	NAMAPEKERJAAN	TANGGALPEREKRUTAN	GAJI
1	67858	SCARLET	ANALYST	1997-04-19	3100.00
2	68319	KAYLING	PRESIDENT	1991-11-18	6000.00
3	68454	TUCKER	SALESMAN	1991-09-08	1600.00
4	69324	MARKER	CLERK	1992-01-23	1400.00

Query executed successfully. RUTH\RUTHSILALAH (15.0 RTM)