


PRAKTIKUM SISTEM BASIS DATA

BAB	:	MENAMPILKAN DATA DARI BANYAK	
		TABEL	
NAMA	:	CANNINO ALBY DARMAWAN	
NIM	:	215150200111018	
ASISTEN	:	FEMI NOVIA LINA	
		QOLANDAR ANNURI	
TGL PRAKTIKUM	:	24/10/2022	TGL PENGUMPULAN : 30/10/2022

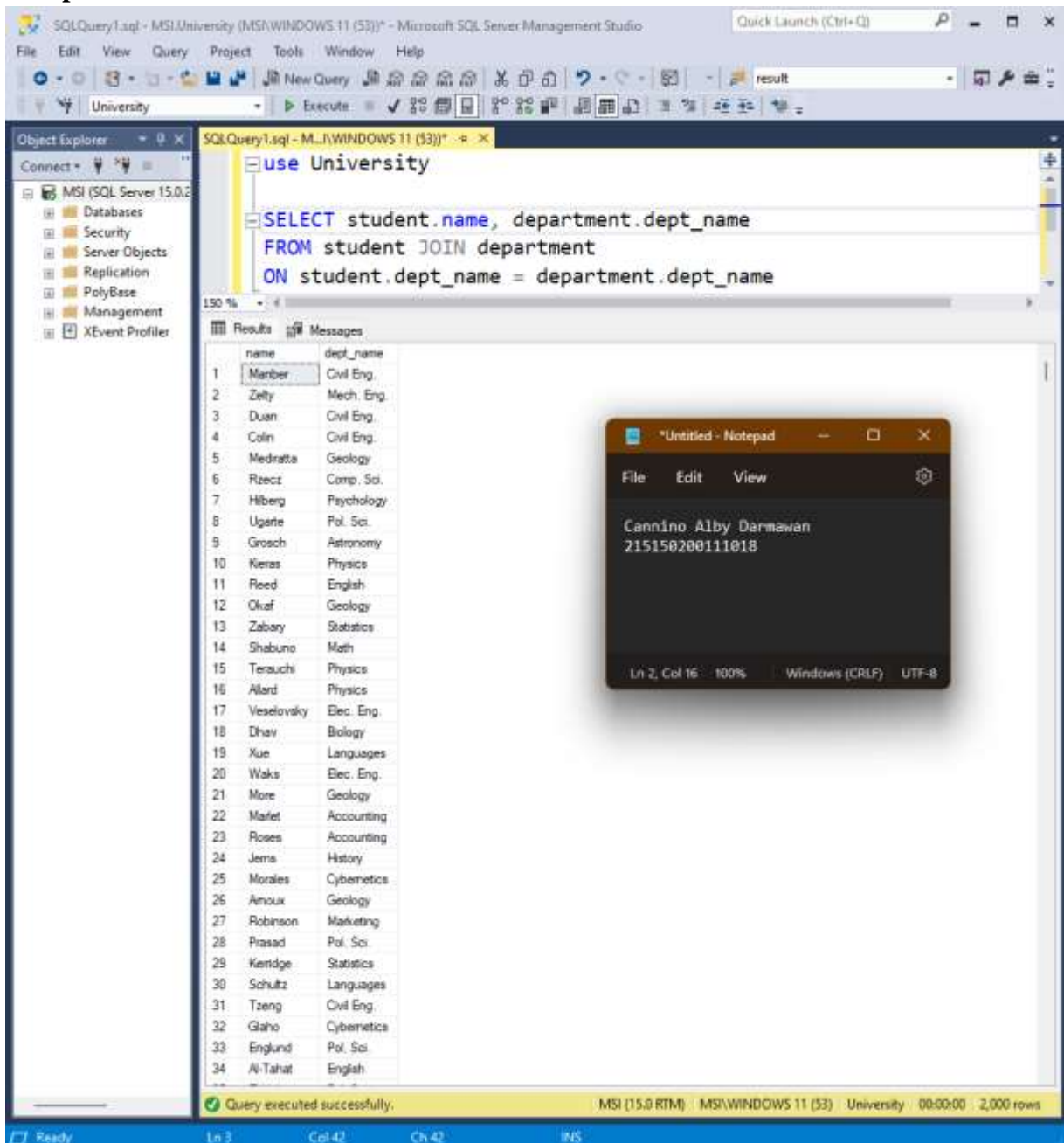
Pertanyaan

1. Tampilkan semua nama *student* beserta nama *departement*.

Implementasi

```
SELECT student.name, department.dept_name
FROM student JOIN department
ON student.dept_name = department.dept_name
```

Tampilan Keluaran



The screenshot displays the Microsoft SQL Server Management Studio interface. The query editor shows the following SQL code:

```
use University

SELECT student.name, department.dept_name
FROM student JOIN department
ON student.dept_name = department.dept_name
```

The Results pane shows the output of the query, which is a table with two columns: 'name' and 'dept_name'. The table contains 34 rows of data. The first two rows are highlighted in the image:

name	dept_name
Marber	Civil Eng.
Zelly	Mech. Eng.

A Notepad window titled '*Untitled - Notepad' is overlaid on the results, showing the first two rows of the query output:

```
Cannino Alby Darmawan
215150200111018
```

The status bar at the bottom indicates that the query was executed successfully, returning 2,000 rows.

Pembahasan dan Analisis

Perintah SELECT untuk mengambil data dari dua tabel, yaitu data name dari tabel student dan data dept_name dari tabel departement. Setelah itu, menggunakan syntax JOIN untuk menggabungkan dua tabel menjadi satu.

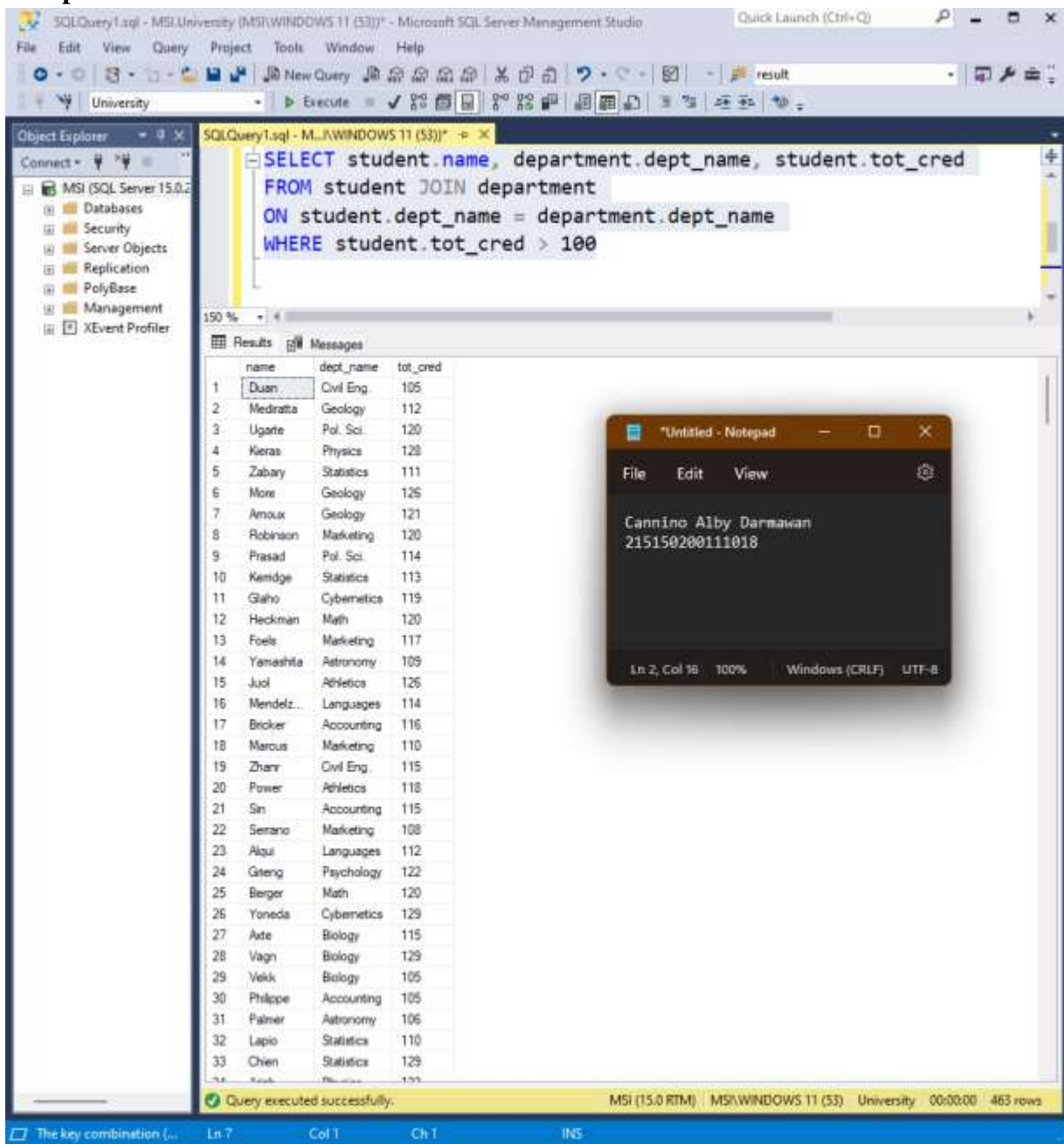
Pertanyaan

2. Tampilkan semua nama *student* beserta nama *departement* yang memiliki total SKS (*total credit*) lebih dari 100.

Implementasi

```
SELECT student.name, department.dept_name,  
student.tot_cred  
FROM student JOIN department  
ON student.dept_name = department.dept_name  
WHERE student.tot_cred > 100
```

Tampilan Keluaran



The screenshot displays the Microsoft SQL Server Management Studio interface. The query editor shows the following SQL query:

```
SELECT student.name, department.dept_name, student.tot_cred
FROM student JOIN department
ON student.dept_name = department.dept_name
WHERE student.tot_cred > 100
```

The Results pane shows the output of the query, which is a table with three columns: name, dept_name, and tot_cred. The data is as follows:

name	dept_name	tot_cred
Duan	Civil Eng.	105
Mediratta	Geology	112
Ugarte	Pol. Sci.	120
Kieras	Physics	128
Zabary	Statistics	111
Mora	Geology	125
Amoux	Geology	121
Robinson	Marketing	120
Prasad	Pol. Sci.	114
Kemdge	Statistics	113
Glaho	Cybernetics	119
Heckman	Math	120
Foels	Marketing	117
Yamashta	Astronomy	109
Juol	Athletics	126
Mendelz...	Languages	114
Bricker	Accounting	116
Marcus	Marketing	110
Zhanr	Civil Eng.	115
Power	Athletics	118
Sin	Accounting	115
Serrano	Marketing	108
Alqui	Languages	112
Grieg	Psychology	122
Berger	Math	120
Yoneda	Cybernetics	129
Ade	Biology	115
Vagn	Biology	129
Vekk	Biology	105
Philippe	Accounting	105
Palmer	Astronomy	106
Lapio	Statistics	110
Chien	Statistics	129

An overlay window titled "Untitled - Notepad" is shown, containing the text:

```
Cannino Alby Darmawan
215150200111018
```

The status bar at the bottom indicates "Query executed successfully." and "463 rows".

Pembahasan dan Analisis

Perintah SELECT digunakan untuk mengambil data dari dua tabel yang berbeda. Dapat dilihat, terdapat 3 kolom pada tabel, yaitu name dari tabel student, dept_name dari tabel departement, dan tot_cred atau sks. Kemudian menggunakan syntax JOIN lagi untuk menggabungkan dua tabel menjadi satu tabel. Setelah itu, menggunakan syntax WHERE untuk memberi constraint berupa data yang diambil adalah data dengan tot_cred lebih dari 100.

Pertanyaan

3. Tampilkan nama *student* dan nama *instructor* yang bekerja pada *departement* yang sama.

Implementasi

```
SELECT * FROM instructor FULL OUTER JOIN student  
ON instructor.dept_name = student.dept_name
```

Tampilan Keluaran

The screenshot displays the Microsoft SQL Server Management Studio interface. The query editor at the top contains the following SQL query:

```
SELECT * FROM instructor FULL OUTER JOIN student  
ON instructor.dept_name = student.dept_name
```

The Results pane below shows the output of the query, which is a table with 8 columns: ID, name, dept_name, salary, ID, name, dept_name, and tot_cred. The table contains 33 rows of data, including NULL values for the first four rows. A Notepad window is open in the foreground, displaying the text:

```
Cannino Alby Darmawan  
215150200111018
```

The status bar at the bottom indicates that the query was executed successfully, showing 5,147 rows.

ID	name	dept_name	salary	ID	name	dept_name	tot_cred	
1	NULL	NULL	NULL	1000	Manber	Civil Eng.	39	
2	48507	Lent	Mech. Eng.	107978.47	10033	Zelty	Mech. Eng.	60
3	97302	Benolino	Mech. Eng.	51647.57	10033	Zelty	Mech. Eng.	60
4	NULL	NULL	NULL	10076	Duan	Civil Eng.	105	
5	NULL	NULL	NULL	1018	Coln	Civil Eng.	81	
6	77346	Mahmoud	Geology	99382.59	10204	Medratia	Geology	112
7	3335	Boutier	Comp. Sci.	80797.83	10267	Rzecz	Comp. Sci.	5
8	34175	Bond	Comp. Sci.	115469.11	10267	Rzecz	Comp. Sci.	5
9	22591	D'Agostino	Psychology	99706.49	10268	Hilberg	Psychology	75
10	35579	Soisalon-Soininen	Psychology	62579.61	10269	Hilberg	Psychology	75
11	19368	Wieland	Pol. Sci.	124651.41	10454	Ugarte	Pol. Sci.	120
12	48570	Sekar	Pol. Sci.	87549.80	10454	Ugarte	Pol. Sci.	120
13	52647	Bancihon	Pol. Sci.	87958.01	10454	Ugarte	Pol. Sci.	120
14	43779	Romero	Astronomy	79070.08	10481	Groech	Astronomy	39
15	50330	Shuming	Physics	108011.81	10527	Keras	Physics	128
16	74420	Voronina	Physics	121141.99	10527	Keras	Physics	128
17	28057	Kean	English	35023.18	10556	Reed	English	79
18	4233	Luo	English	88791.45	10556	Reed	English	79
19	72553	Yin	English	46397.59	10556	Reed	English	79
20	95709	Sakurai	English	118143.98	10556	Reed	English	79
21	77346	Mahmoud	Geology	99382.59	10663	Okaf	Geology	59
22	28400	Atanasov	Statistics	84982.92	10693	Zabary	Statistics	111
23	37687	Anas	Statistics	104563.38	10693	Zabary	Statistics	111
24	64871	Gutierrez	Statistics	45310.53	10693	Zabary	Statistics	111
25	78699	Pnqr	Statistics	59303.62	10693	Zabary	Statistics	111
26	90643	Choll	Statistics	57807.09	10693	Zabary	Statistics	111
27	95030	Annb	Statistics	54805.11	10693	Zabary	Statistics	111
28	NULL	NULL	NULL	107	Shabuno	Math	19	
29	50330	Shuming	Physics	108011.81	10705	Terauchi	Physics	48
30	74420	Voronina	Physics	121141.99	10705	Terauchi	Physics	48
31	50330	Shuming	Physics	108011.81	10727	Allard	Physics	27
32	74420	Voronina	Physics	121141.99	10727	Allard	Physics	27
33	3199	Gustafsson	Elec. Eng.	82534.37	10736	Veselo...	Elec. Eng.	62

Pembahasan dan Analisis

Perintah `SELECT * FROM` untuk mengambil semua data dari kolom instructor, lalu menggunakan operasi `FULL OUTER JOIN` untuk menggabungkan dengan tabel student. Dapat dilihat, terdapat data yang memiliki nilai `NULL` ketika ada data yang sama dari departement yang sama ataupun data tidak lengkap.