

## PRAKTIKUM BASIS DATA

BAB	: COLUMN FUNCTION AND GROUPING
NAMA	: DANI ADRIAN
NIM	: 225150201111009
ASISTEN	: NATHAN DAUD
	RAKHA HANIF MAHESWARA
	NAUFAL PUTRA SUTRISNA
	STANISLAUS FRANS BERNADO
TGL PRAKTIKUM	: 08/11/2023
TGL PENGUMPULAN	: 11/11/2023

### Pertanyaan

1. Dapatkan banyaknya *student* yang memiliki *total credit* > 100 tiap-tiap *department*.

### Implementasi

```
USE DBSS_009

SELECT dept_name, COUNT(*) AS total_student
FROM student WHERE tot_cred > 100
GROUP BY dept_name
```

### Tampilan Keluaran

SQLQuery1.sql - LA....DBSS\_009 (sa (67))\*

```

1  USE DBSS_009
2
3  SELECT dept_name, COUNT(*) AS total_student
4  FROM student WHERE tot_cred > 100
5  GROUP BY dept_name

```

110 %

Results Messages

	dept_name	total_student
1	Accounting	14
2	Astronomy	23
3	Athletics	26
4	Biology	26
5	Civil Eng.	23
6	Comp. Sci.	24
7	Cybernetics	21
8	Elec. Eng.	22
9	English	23
10	Finance	22
11	Geology	24
12	History	30
13	Languages	25
14	Marketing	23
15	Math	21
16	Mech. Eng.	24
17	Physics	23
18	Pol. Sci.	23
19	Psychology	21
20	Statistics	25

Dani Adrian.tx

File Edit View

Dani Adrian  
225150201111009

Ln 1, Col 1 100% Windows (CRLF)

### Pembahasan dan Analisis

Nama : Dani Adrian

NIM : 225150201111009

Perintah `SELECT (atribut), COUNT (*) FROM (tabel) WHERE (kondisi) GROUP BY (atribut)` digunakan untuk mendapatkan banyaknya student yang memiliki total Credit > 100 tiap - tiap department.

Operator `COUNT (*)` digunakan untuk mendapatkan jumlah dari seluruh baris. Dilakukan grouping pada `dept_name`, agar operator `COUNT` dapat menghitung jumlah baris berdasarkan `dept_name`.

### Pertanyaan

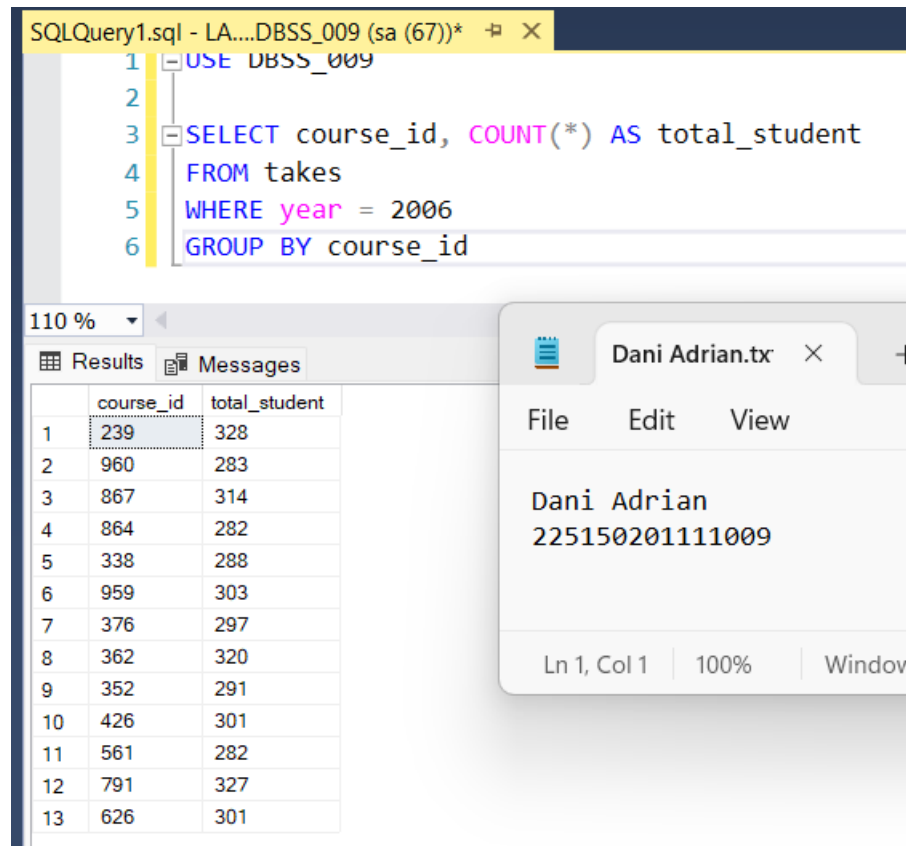
2. Dapatkan *course\_id* dan banyak *student* yang mengambil masing-masing *course* tersebut pada tahun 2006.

### Implementasi

```
USE DBSS_009

SELECT course_id, COUNT(*) AS total_student
FROM takes
WHERE year = 2006
GROUP BY course_id
```

### Tampilan Keluaran



The screenshot shows a SQL query window with the following code:

```
SQLQuery1.sql - LA....DBSS_009 (sa (67))* X
1 USE DBSS_009
2
3 SELECT course_id, COUNT(*) AS total_student
4 FROM takes
5 WHERE year = 2006
6 GROUP BY course_id
```

Below the query window, the 'Results' tab is active, displaying a table with 13 rows of data:

	course_id	total_student
1	239	328
2	960	283
3	867	314
4	864	282
5	338	288
6	959	303
7	376	297
8	362	320
9	352	291
10	426	301
11	561	282
12	791	327
13	626	301

Overlaid on the right side of the screenshot is a window titled 'Dani Adrian.tx' containing the text:

Dani Adrian  
225150201111009

### Pembahasan dan Analisis

Nama : Dani Adrian

NIM : 225150201111009

Perintah `SELECT (atribut), COUNT(*) FROM (atribut) WHERE (kondisi)`  
`GROUP BY (atribut)`

Operator `COUNT(*)` digunakan Untuk mendapatkan jumlah dari seluruh baris. Dilakukan grouping Pada `course_id` agar Operator `COUNT` dapat menghitung jumlah baris berdasarkan `course_id`