

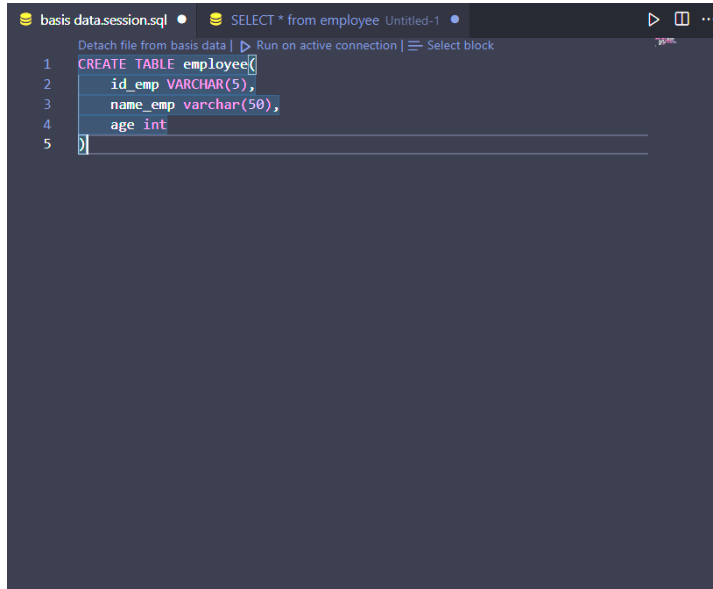
BASIS DATA LATIHAN PERTEMUAN 2

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LATIHAN 2


Create table employee



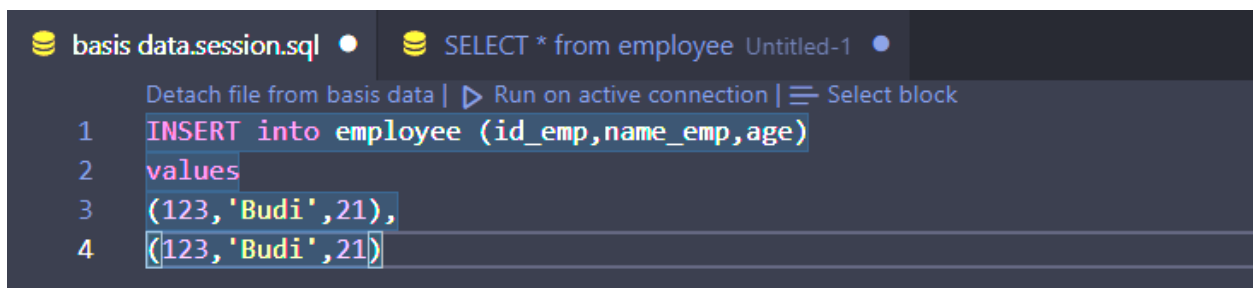
The screenshot shows a SQL IDE with two tabs: 'basis data.session.sql' and 'SELECT * from employee Untitled-1'. The 'basis data.session.sql' tab is active, displaying a SQL script to create a table named 'employee'. The script is as follows:

```
1 CREATE TABLE employee(  
2     id_emp VARCHAR(5),  
3     name_emp varchar(50),  
4     age int  
5 )
```

Select table employee

id_emp	name_emp	age	
 Filter...	 Filter...	 Filter...	
No data			

Insert table



The screenshot shows a SQL IDE with two tabs: 'basis data.session.sql' and 'SELECT * from employee Untitled-1'. The 'basis data.session.sql' tab is active, displaying an SQL script to insert data into the 'employee' table. The script is as follows:

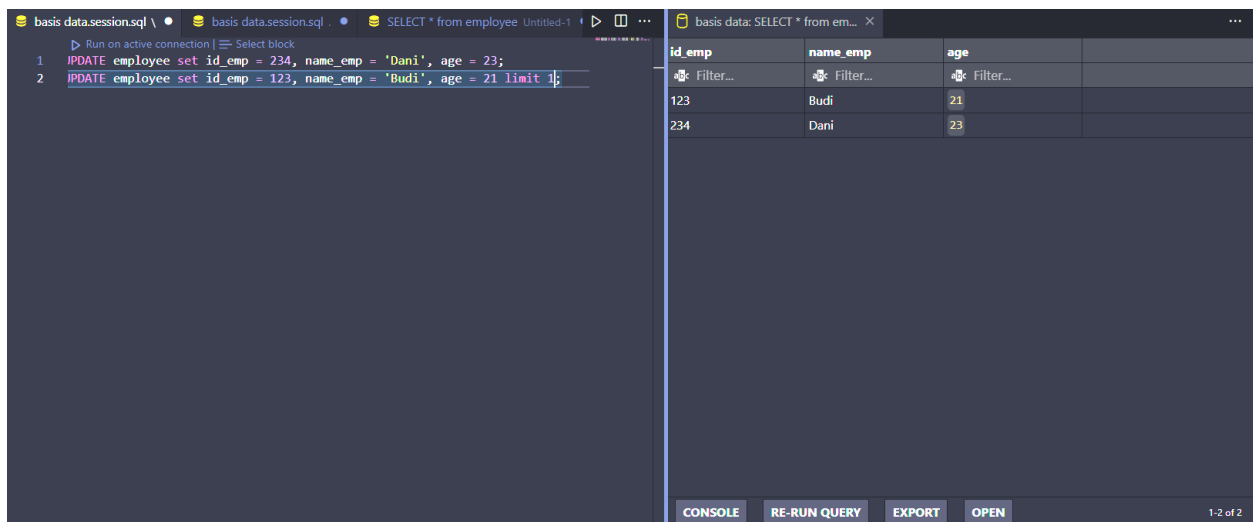
```
1 INSERT into employee (id_emp,name_emp,age)  
2 values  
3 (123,'Budi ',21),  
4 (123,'Budi ',21)
```

Select table

id_emp	name_emp	age	
Filter...	Filter...	Filter...	
123	Budi	21	
123	Budi	21	

Update table data yang terduplikasi

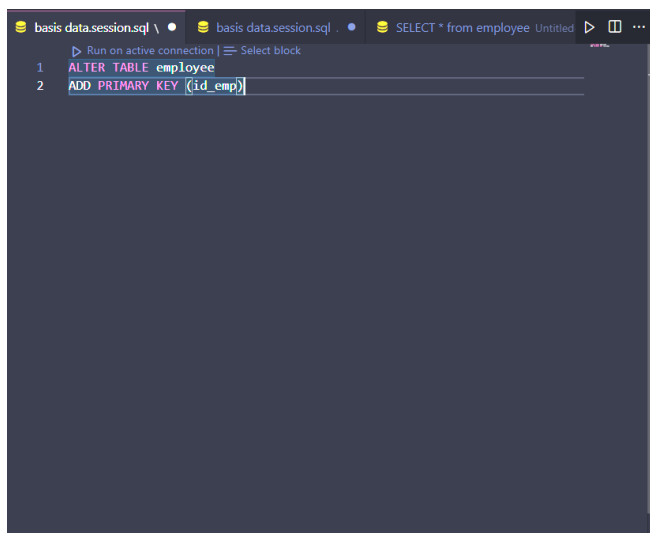
Saya belum bisa menemukan cara yang tepat sehingga saya perlu untuk mengupdate keseluruhan table kemudian membuat update berikutnya dengan menggunakan limit



```
1 UPDATE employee set id_emp = 234, name_emp = 'Dani', age = 23;
2 UPDATE employee set id_emp = 123, name_emp = 'Budi', age = 21 limit 1;
```

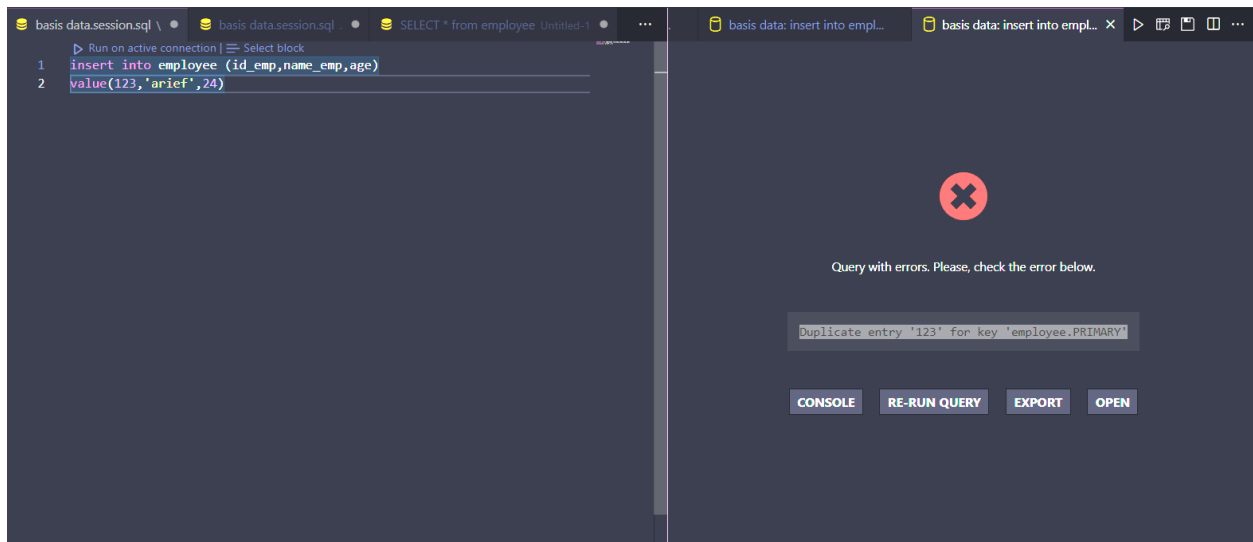
id_emp	name_emp	age	
Filter...	Filter...	Filter...	
123	Budi	21	
234	Dani	23	

Membuat Primary key pada column id_emp



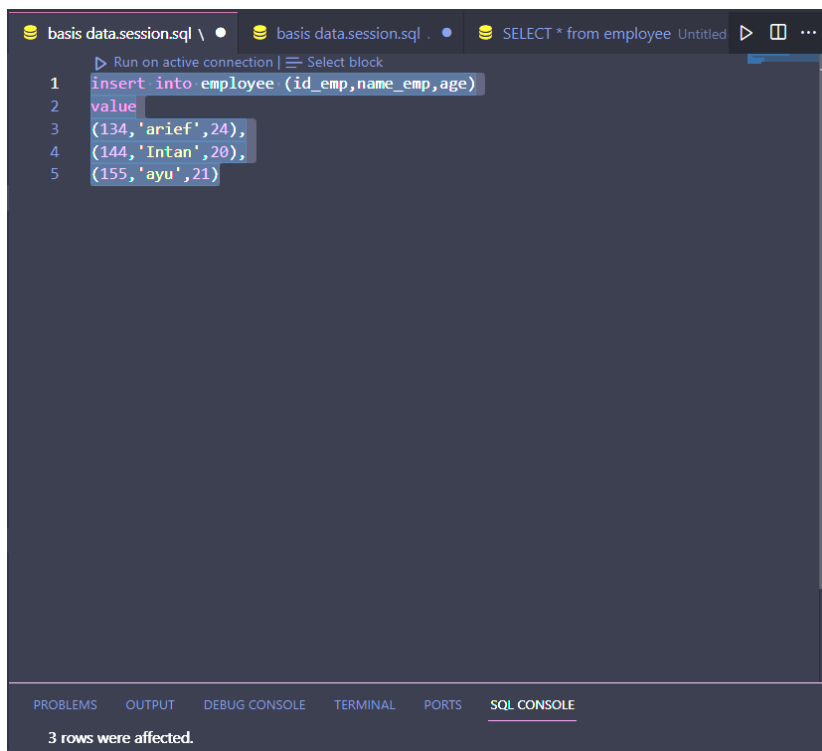
```
1 ALTER TABLE employee
2 ADD PRIMARY KEY (id_emp)
```

Memasukan data



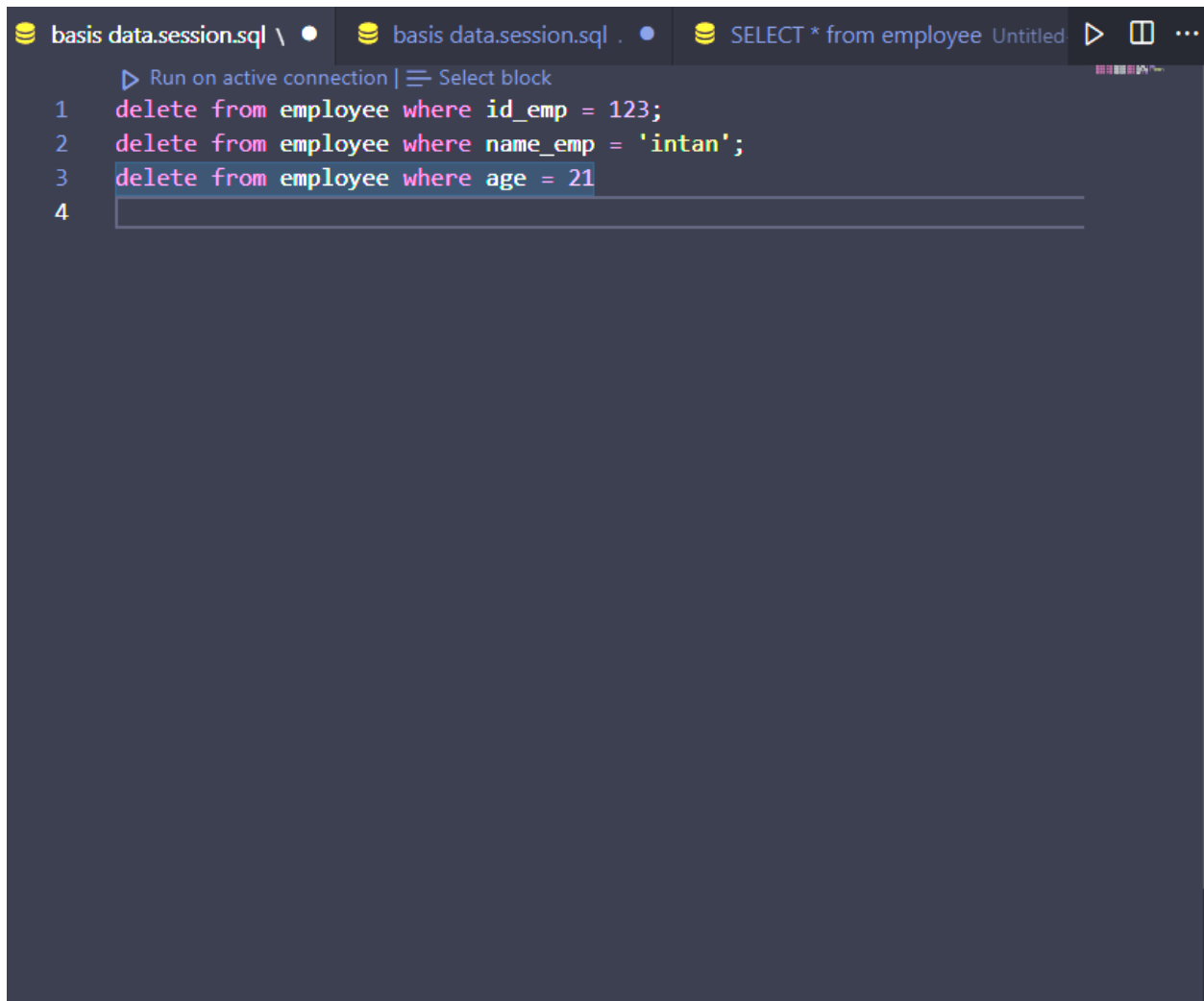
Dengan memasukkan data tersebut terjadi sebuah error berupa duplikasi data. Dari hal tersebut dapat disimpulkan dengan bahwa data pada primary key tidak bisa terduplikasi.

Memasukan data



Data berhasil diinput karena memiliki tidak ada kesamaan data pada column id_emp

Penghapusan data



The screenshot shows a SQL IDE interface with a dark theme. At the top, there are three tabs: 'basis data.session.sql \', 'basis data.session.sql .', and 'SELECT * from employee Untitled'. Below the tabs, there is a toolbar with a play button and a 'Run on active connection' label. The main editor area contains three lines of SQL code: 'delete from employee where id_emp = 123;', 'delete from employee where name_emp = 'intan';', and 'delete from employee where age = 21'. The third line is highlighted with a blue selection bar.

```
1 delete from employee where id_emp = 123;
2 delete from employee where name_emp = 'intan';
3 delete from employee where age = 21
4
```

id_emp	name_emp	age
abc Filter...	abc Filter...	abc Filter...
134	arief	24
234	Dani	23

Menampilkan hanya hasil penambahan:

asis data.session.sql • insert INTO employee (id_emp,name_emp,age) Untitled-1 • ▶ □ ...

▶ Run on active connection | Select block

```
1 insert INTO employee (id_emp,name_emp,age)
2 values
3 (211,'Mulya',21),
4 (212,'Dewi',22),
5 (213,'Dewi',23);
6
7 commit;
8
```

sis data: multiple query results

id_emp	name_emp	age	
Filter...	Filter...	Filter...	
134	arief	24	
211	Mulya	21	
212	Dewi	22	
213	Dewi	23	
234	Dani	23	

CONSOLE RE-RUN QUERY EXPORT OPEN 1-5 of 5

Delete seluruh data:

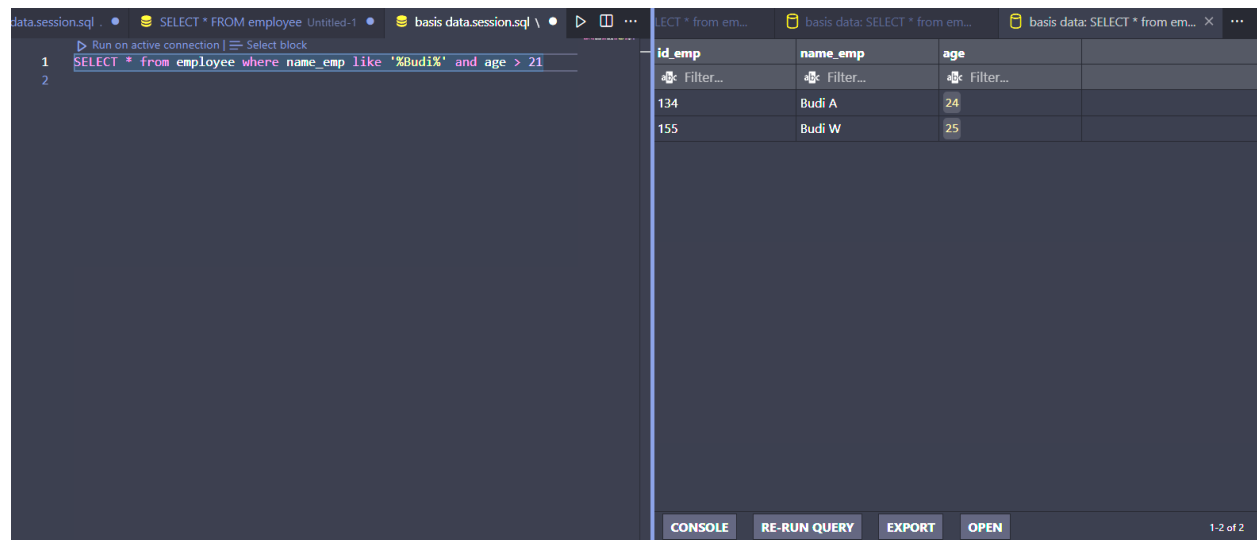
id_emp	name_emp	age	
Filter...	Filter...	Filter...	
No data			

CONSOLE RE-RUN QUERY EXPORT OPEN 0 of 0

Batalkan penghapusan:

Data tidak bisa dipulihkan karena sudah menjalankan query lain sehingga data telah tercommit

Menampilkan data dengan nama budi dengan usia diatas 21 tahun:



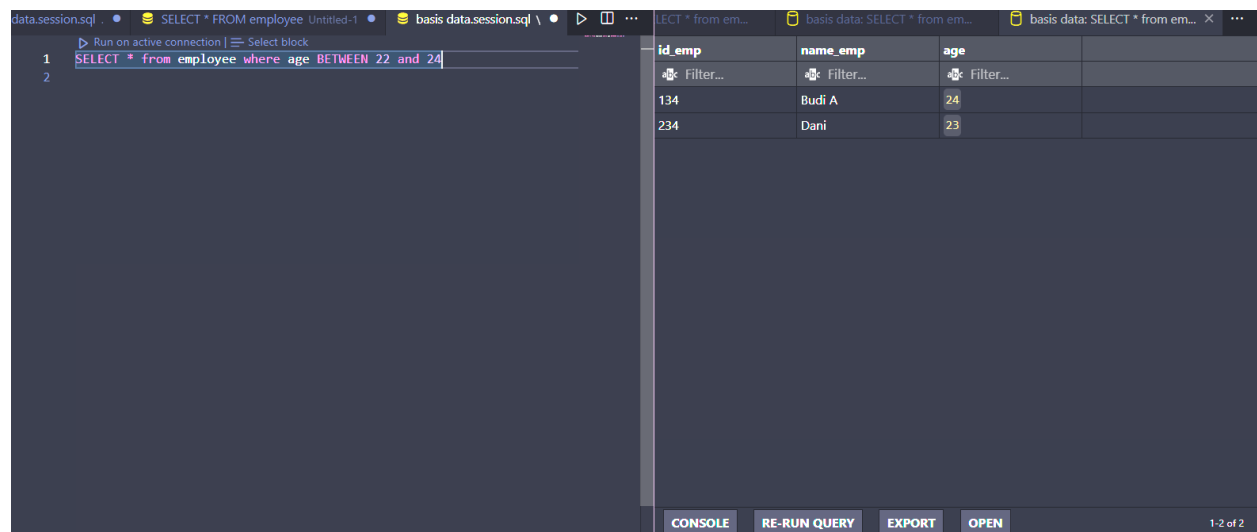
data.session.sql • SELECT * FROM employee Untitled-1 • basis data.session.sql \ • ▶ □ ...

1 ▶ Run on active connection | Select block
2 SELECT * from employee where name_emp like '%Budi%' and age > 21

id_emp	name_emp	age
Filter...	Filter...	Filter...
134	Budi A	24
155	Budi W	25

CONSOLE RE-RUN QUERY EXPORT OPEN 1-2 of 2

Menampilkan data usia antara 22-24



data.session.sql • SELECT * FROM employee Untitled-1 • basis data.session.sql \ • ▶ □ ...

1 ▶ Run on active connection | Select block
2 SELECT * from employee where age BETWEEN 22 and 24

id_emp	name_emp	age
Filter...	Filter...	Filter...
134	Budi A	24
234	Dani	23

CONSOLE RE-RUN QUERY EXPORT OPEN 1-2 of 2

Menambahkan gol pada table:

data.session.sql . • SELECT * FROM employee Untitled-1 • basis data.session.sql \ •			
▶ Run on active connection Select block 1 UPDATE employee set gol = 'I' where id_emp = 123 or id_emp = 155; 2 UPDATE employee set gol = 'II' where id_emp = 234 or id_emp = 144; 3 UPDATE employee set gol = 'III' where id_emp = 134; 4 5			
TABLE empl...	basis data: multiple query results		
id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
123	Budi B	21	I
134	Budi A	24	III
144	Intan	20	II
155	Budi W	25	I
234	Dani	23	II
CONSOLE RE-RUN QUERY EXPORT OPEN 1-5 of 5			

Jika tidak menambahkan kondisi where maka semua ada akan terisi sama sesuai dari data yang di set

Praktek between, not between, between, in/not in,like,and:

SELECT * FROM employee where age BETWEEN Untitled-1 • basis data.session.sql •			
▶ Run on active connection Select block 1 SELECT * FROM employee where age BETWEEN 20 and 25			
* FROM em...	basis data: SELECT * FROM em...		
id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
123	Budi B	21	I
134	Budi A	24	III
144	Intan	20	II
155	Budi W	25	I
234	Dani	23	II
CONSOLE RE-RUN QUERY EXPORT OPEN 1-5 of 5			

SELECT * FROM employee where age NOT BET Untitled-1

basis data.session.sql

▶ □ ...

▶ Run on active connection | Select block

1 SELECT * FROM employee where age NOT BETWEEN 21 and 25

* FROM em...

basis data: SELECT * FROM em...

basis data: SELECT * FROM em... X ...

id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
144	Intan	20	II

CONSOLE RE-RUN QUERY EXPORT OPEN 1 of 1

SELECT * FROM employee where name_emp BE Untitled-1

basis data.session.sql

basis data. ▶ □ ...

▶ Run on active connection | Select block

1 SELECT * FROM employee where name_emp BETWEEN 'Budi B' and 'intan'

basis data: SELECT * FROM em...

basis data: SELECT * FROM em... X ...

id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
123	Budi B	21	I
144	Intan	20	II
155	Budi W	25	I
234	Dani	23	II

CONSOLE RE-RUN QUERY EXPORT OPEN 1 of 4

SELECT * FROM employee where Gol in (II Untitled-1

basis data.session.sql

basis data.sessi ▶ □ ...

▶ Run on active connection | Select block

1 SELECT * FROM employee where Gol in ('III', 'II')

basis data: SELECT * FROM em...

basis data: SELECT * FROM em... X ...

id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
134	Budi A	24	III
144	Intan	20	II
234	Dani	23	II

CONSOLE RE-RUN QUERY EXPORT OPEN 1 of 3

SELECT * FROM employee where Gol not in Untitled-1 • basis data.session.sql • basis data.ses: ▶ □ ...

▶ Run on active connection | Select block

1 SELECT * FROM employee where Gol not in ('III', 'II')

id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
123	Budi B	21	I
155	Budi W	25	I

CONSOLE RE-RUN QUERY EXPORT OPEN 1-2 of 2

SELECT * FROM employee where name_emp li Untitled-1 • basis data.session.sql • basis data.ses: ▶ □ ...

▶ Run on active connection | Select block

1 SELECT * FROM employee where name_emp like "%Budi%";

id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
123	Budi B	21	I
134	Budi A	24	III
155	Budi W	25	I

CONSOLE RE-RUN QUERY EXPORT OPEN 1-3 of 3

SELECT * FROM employee where age = 21 an Untitled-1 • basis data.session.sql • basis data.se: ▶ □ ...

▶ Run on active connection | Select block

1 SELECT * FROM employee where age = 21 and name_emp = 'Budi B'

id_emp	name_emp	age	Gol
Filter...	Filter...	Filter...	Filter...
123	Budi B	21	I

CONSOLE RE-RUN QUERY EXPORT OPEN 1 of 1

Buat table baru dan insert kedalam table employee:

▶ Run on active connection Select block 1 insert into employee (id_emp,name_emp,age,Gol) 2 select id_emp,name_emp,age,Gol 3 from pegawai 4 where Gol = 'III' 5				
id_emp	name_emp	age	Gol	
Filter...	Filter...	Filter...	Filter...	
123	Budi B	21	I	
134	Budi A	24	III	
144	Intan	20	II	
155	Budi W	25	I	
234	Dani	23	II	
555	ateng	20	III	
CONSOLE RE-RUN QUERY EXPORT OPEN 1 of 6				

Rollback

session.sql \ • begin; Untitled-1 • basis data.session.sql • bas ▶ ... ▶ Run on active connection Select block 1 begin; 2 delete from pegawai where id_emp = 333; 3 rollback				
id_emp	name_emp	age	Gol	
Filter...	Filter...	Filter...	Filter...	
111	Gisna	20	II	
333	Me	22	III	
555	Ateng	21	I	
CONSOLE RE-RUN QUERY EXPORT OPEN 1 of 3				

Buat table golongan dan buat fk dari table tersebut:

SELECT employee.id_emp,employee.name_emp Untitled-1

Run on active connection

Select block

1 SELECT employee.id_emp,employee.name_emp, golongan.Gol_name from employee join golongan ON employee.Gol = golongan.gol

player...

basis data: SELECT employee...

basis data: SELECT employee...

basis data: SELECT employee... X

id_emp	name_emp	Gol_name
Filter...	Filter...	Filter...
123	Budi B	Golongan I
155	Budi W	Golongan I
144	Intan	Golongan II
234	Dani	Golongan II
134	Budi A	Golongan III
555	ateng	Golongan III

CONSOLE

RE-RUN QUERY

EXPORT

OPEN

1-6 of 6