

SQLQueryH1.sql - ARIF\SQLEXPRESS.AKADEMIK_30102023 (ARIF\agaul (54)) - Microsoft SQL Server Management Studio

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New Query

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ARIF\SQLEXPRESS (SQL Server 13.0.6404.1)

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dbo.DOSEN

dbo.MATKUL

dbo.MHS

dbo.NILAI

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SQLQueryH1.sql - A...3 (ARIF\agaul (54))

CREATE DATABASE AKADEMIK_30102023

USE AKADEMIK_30102023

--buat table MHS MATKUL NILAI (DDL)

CREATE TABLE MHS (nim CHAR(3) PRIMARY KEY, nama VARCHAR(40), tinggi INT, berat FLOAT)

CREATE TABLE MATKUL (kodek CHAR(2) PRIMARY KEY, namamk VARCHAR(15), sks FLOAT)

CREATE TABLE NILAI (ID int IDENTITY(1,1) PRIMARY KEY,nim CHAR(3) FOREIGN KEY REFERENCES MHS(nim), kodek CHAR(2) FOREIGN KEY REFERENCES MATKUL(kodek), nilai FLOAT)

--buat table baru Dosen (DDL)

CREATE TABLE DOSEN (kodeks CHAR(2) PRIMARY KEY, namads VARCHAR(30), umur FLOAT)

--tambah field baru dengan sintaks alter table

ALTER TABLE DOSEN ADD alamat VARCHAR(50), nohp VARCHAR(15)

ALTER TABLE DOSEN ALTER COLUMN nohp VARCHAR(20)

--hapus tabel dosen

DROP TABLE DOSEN

--isi data MHS (DML)

INSERT INTO MHS (nim,nama,tinggi,berat) VALUES ('100','Adi Susanto',170,65.5)

INSERT INTO MHS (nim,nama,tinggi,berat) VALUES ('101','Budi Susanto',175,70.3)

INSERT INTO MHS (nim,nama,tinggi,berat) VALUES ('102','Susi Susanti',165,50.5)

select*from MHS

--isi data MATKUL (DML)

insert into matkul (kodek,namamk,sks) values ('M1','Pancasila',2)

insert into matkul (kodek,namamk,sks) values ('M2','Matematika',3)

insert into matkul (kodek,namamk,sks) values ('M3','Manajemen',3)

select*from MATKUL

--isi data NILAI (DML)

insert into NILAI (nim,kodek,nilai) values ('100','M1',4)

insert into NILAI (nim,kodek,nilai) values ('100','M2',3)

insert into NILAI (nim,kodek,nilai) values ('100','M3',2)

insert into NILAI (nim,kodek,nilai) values ('101','M1',2)

Properties

Current connection parameters

Aggregate Status

Connection failures	
Elapsed time	00:00:00.0588815
Finish time	31/10/2023 17:56:08
Name	ARIF\SQLEXPRESS
Rows returned	2
Start time	31/10/2023 17:56:07
State	Open

Connection

Connection name	ARIF\SQLEXPRESS (ARIF\agaul (54))
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Connection Details

Connection elapsed tin	00:00:00.0588815
Connection encryption	Not encrypted
Connection finish time	31/10/2023 17:56:08
Connection rows return	2
Connection start time	31/10/2023 17:56:07
Connection state	Open
Display name	ARIF\SQLEXPRESS
Login name	ARIF\agaul
Server name	ARIF\SQLEXPRESS
Server version	13.0.6404
Session Tracing ID	
SPID	54

Name

The name of the connection.

Results

Messages

Query executed successfully.

ARIF\SQLEXPRESS (13.0 SP3) | ARIF\agaul (54) | AKADEMIK_30102023 | 00:00:00 | 2 rows

Ready

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SQLQueryH1.sql - A...3 (ARIF\agaul (54))

--isi data NILAI (DML)

insert into NILAI (nim,kodemk,nilai) values ('100','M1',4)

insert into NILAI (nim,kodemk,nilai) values ('100','M2',3)

insert into NILAI (nim,kodemk,nilai) values ('100','M3',2)

insert into NILAI (nim,kodemk,nilai) values ('101','M1',3)

insert into NILAI (nim,kodemk,nilai) values ('101','M2',2)

insert into NILAI (nim,kodemk,nilai) values ('101','M3',4)

insert into NILAI (nim,kodemk,nilai) values ('102','M1',3)

insert into NILAI (nim,kodemk,nilai) values ('102','M2',2)

insert into NILAI (nim,kodemk,nilai) values ('102','M3',2)

select*from NILAI

--isi data DOSEN (DML)

insert into DOSEN (kodeds,namads,umur,alamat,nohp) values ('D1','Ir. Sumijan,M.SC',60,'Bekasi','081213112222')

insert into DOSEN (kodeds,namads,umur,alamat,nohp) values ('D2','Ronaldo, S.Kom, M.Kom',50,'Jakarta','08121312122')

insert into DOSEN (kodeds,namads,umur,alamat,nohp) values ('D3','Sri Wahyuni, S.Kom, M.Kom',42,'Bali','08121312123')

insert into DOSEN (kodeds,namads,umur,alamat,nohp) values ('D4','Ir. Soepono,M.SC',75,'Bogor','08121312111')

select*from DOSEN

--update data DOSEN (DML)

UPDATE DOSEN SET umur = 56, alamat='sukabumi',nohp='081232245645' WHERE kodeds='D1'

--delete data dosen

Delete from DOSEN WHERE kodeds='D1'

select*from DOSEN

--LATIHAN SQL SELECT--

--1. tampilkan data MHS

select*from MHS

--2. tampilkan data nim&nama MHS

select nim,nama from MHS

--3. tampilkan MHS berdasarkan berat (asc)

select*from MHS order by berat asc

Properties

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Start time

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--3. tampilkan MHS berdasarkan berat (asc)
select*from MHS order by berat asc

--4. tampilkan MHS berdasarkan tinggi (desc)
select*from MHS order by tinggi desc

--5. tampilkan MHS tinggi diatas 170
select*from MHS where tinggi>170

--6. tampilkan MHS berat dibawah 70
select*from MHS where berat<70

--7. tampilkan MHS tinggi diatas 165 dan berat dibawah 70
select*from MHS where tinggi>165 and berat<70

--8. tampilkan MHS tinggi antara 168 - 180
select*from MHS where tinggi between 168 and 180

--9. tampilkan MHS tinggi tidak diantara 168 - 180
select*from MHS where tinggi not between 168 and 180

--10. tampilkan BMI(body mass index) MHS
select *,berat/(tinggi*tinggi) as BMI from MHS

--fungsi agregat(rekap)--

--11. tampilkan tinggi maximal MHS
select max(tinggi) as tinggi_maximal from MHS

--12. tampilkan berat minimal MHS
Select min(berat) as minimum_berat from MHS

--13. tampilkan rata-rata tinggi MHS
Select avg(tinggi) as tinggi_rata2 from MHS

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ResultsMessages

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Select min(berat) as minimum_berat from MHS

--13. tampilkan rata-rata tinggi MHS

Select avg(tinggi) as tinggi_rata2 from MHS

--14. tampilkan jumlah berat badan total MHS

Select sum(berat) as jumlah_berat from MHS

--15. tampilkan MHS yg tingginya diatas rata rata

Select nama from MHS where tinggi > (select avg(tinggi) from MHS)

--16. tampilkan MHS yg tertinggi

select nama from MHS where tinggi>=(select max(tinggi) as tinggi_maximal from MHS)

--17. tampilkan nama dan nilai mahasiswa untuk matkul matematika

select MHS.nama,NILAI.nilai from MHS inner join NILAI on MHS.nim=NILAI.nim

where NILAI.kodemk='M2'

--18. tampilkan nama dan nilai mahasiswa untuk matakuliah selain Pancasila dan nilainya diatas 2.

select MHS.nama,NILAI.nilai from MHS inner join NILAI on MHS.nim=NILAI.nim

where NILAI.kodemk !='M1' and NILAI.nilai>2

--19. tampilkan IPK semua MHS nim dan namanya

SELECT MHS.nim,MHS.nama,SUM(NILAI.nilai) / COUNT(nilai.nim) AS IPK

FROM MHS INNER JOIN nilai

ON

MHS.nim = NILAI.nim

GROUP BY

MHS.nim, MHS.nama

--20. tampilkan IPK semua MHS nim dan namanya secara urut berdasarkan IPK.

SELECT MHS.nim,MHS.nama,SUM(NILAI.nilai) / COUNT(nilai.nim) AS IPK

FROM MHS INNER JOIN NILAI

ON

MHS.nim = NILAI.nim

ORDER BY IPK

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GROUP BY

MHS.nim, MHS.nama

--20. tampilkan IPK semua MHS nim dan namanya secara urut berdasarkan IPK.

SELECT MHS.nim,MHS.nama,SUM(NILAI.nilai) / COUNT(nilai.nim) AS IPK

FROM MHS INNER JOIN NILAI

ON

MHS.nim = NILAI.nim

GROUP BY

MHS.nim, MHS.nama

ORDER BY

IPK Desc

--21. tampilkan IPK semua MHS nim dan namanya khusus yg IPK diatas 2.75

SELECT MHS.nim,MHS.nama,SUM(NILAI.nilai) / COUNT(NILAI.nim) AS IPK

FROM MHS INNER JOIN NILAI

ON

MHS.nim = NILAI.nim

GROUP BY

MHS.nim, MHS.nama

HAVING

SUM(NILAI.nilai) / COUNT(NILAI.nim) >2.75

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