create database DBAkademik;

create table Dosen(SandiDosen varchar(10) not null, NamaDosen varchar(50), Golongan varchar(2), Pendidikan varchar(10), BidangKajian varchar(100), primary key(SandiDosen));

create table Jadwal(KodeMK varchar(10) not null, Semester varchar(20), HariKuliah varchar(10), JamMulai varchar(5), JamSelesai varchar(5), Dosen varchar(10), primary key(KodeMK));

create table KRS(NPM varchar(12) not null, KodeMK varchar(10) not null, Hadir smallint, Tugas smallint, Quiz smallint, UTS smallint, UAS smallint, NilaiAKhir float, Hurufmutu varchar(1), AngkaMutu smallint, primary key(NPM, KodeMK));

create table Kuliah(KodeMK varchar(10) not null, NamaMK varchar(50) not null, Sks smallint, Semester varchar(2), JenisMK varchar(10), RPS varchar(10), primary key(KodeMK));

create table Mhs(NPM varchar(12) not null, Nama varchar(50), TptLhr varchar(50), TglLhr varchar(10), JenisKelamin varchar(10), Alamat varchar(100), DosenWali varchar(10), primary key(NPM));

LOAD DATA LOCAL INFILE 'D:/Kuliah/Semester 2/Sistem Database/DBAkademik/kuliah.csv' INTO TABLE Kuliah

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\r\n' IGNORE 1 LINES;

LOAD DATA LOCAL INFILE 'D:\\Kuliah\\Semester 2\\Sistem Database\\DBAkademik\\dosen.csv' INTO TABLE Dosen

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\r\n' IGNORE 1 LINES;

LOAD DATA LOCAL INFILE 'D:\\Kuliah\\Semester 2\\Sistem Database\\DBAkademik\\jadwal.csv' INTO TABLE Jadwal

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\r\n' IGNORE 1 LINES;

LOAD DATA LOCAL INFILE 'D:\\Kuliah\\Semester 2\\Sistem Database\\DBAkademik\\krs.csv' INTO TABLE KRS

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\r\n' IGNORE 1 LINES;

LOAD DATA LOCAL INFILE 'D:\\Kuliah\\Semester 2\\Sistem Database\\DBAkademik\\mhs.csv' INTO TABLE Mhs

FIELDS TERMINATED BY ',' ENCLOSED BY '"'

LINES TERMINATED BY '\r\n' IGNORE 1 LINES;

SELECT \* FROM Mhs WHERE TptLhr NOT LIKE '%Bandung%';

SELECT COUNT(NamaDosen), Pendidikan FROM Dosen GROUP BY Pendidikan;

SELECT COUNT(NPM), JenisKelamin FROM Mhs GROUP BY JenisKelamin;

SELECT Nama, DosenWali FROM Mhs WHERE DosenWali='D03B10007' or DosenWali='D10H10004';

UPDATE KRS SET NPM='140810210002' WHERE NPM='140810217001';

SELECT Mhs.DosenWali, Dosen.NamaDosen, Mhs.Nama, mhs.JenisKelamin

FROM Mhs

INNER JOIN

Dosen ON

dosen.SandiDosen = Mhs.DosenWali

WHERE Dosen.Golongan = '3D';

SELECT KRS.NPM, Mhs.Nama, (SELECT KodeMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS KodeMK,

(SELECT NamaMK FROM Kuliah WHERE KodeMK=KRS.KodeMK) AS NamaMK,

(SELECT SKS FROM Kuliah WHERE KodeMK=KRS.KodeMK) AS SKS, KRS.HurufMutu AS HurufMutu,

(SELECT NamaDosen FROM Dosen WHERE SandiDosen = (SELECT Dosen FROM Jadwal WHERE KodeMK=KRS.KodeMK)) AS NamaDosen

FROM Mhs INNER JOIN KRS ON Mhs.NPM = KRS.NPM WHERE Mhs.NPM='140810210002';

SELECT Mhs.NPM, Mhs.Nama,

SUM((((SELECT SKS FROM Kuliah WHERE KodeMK = KRS.KodeMK) \* KRS.AngkaMutu)/(SELECT SUM(SKS) FROM Kuliah WHERE semester='01'))) AS IP

FROM Mhs INNER JOIN KRS ON Mhs.NPM = KRS.NPM WHERE KRS.KodeMK

IN (SELECT KodeMK FROM Kuliah WHERE semester='01') GROUP BY NPM;

SELECT Mhs.NPM, Mhs.Nama, (SELECT KodeMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) as KodeMK,

(SELECT NamaMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS NamaMK, KRS.HurufMutu AS HurufMutu

FROM Mhs LEFT JOIN KRS

ON Mhs.NPM = KRS.NPM

LEFT JOIN Kuliah ON Kuliah.KodeMK = KRS.KodeMK;

SELECT Mhs.NPM, Mhs.Nama, (SELECT KodeMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) as KodeMK,

(SELECT NamaMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS NamaMK,

(SELECT SKS FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS SKS,

KRS.Tugas, KRS.Quiz, KRS.UTS, KRS.UAS, KRS.NilaiAkhir AS NilaiAkhir,

KRS.HurufMutu AS HurufMutu

FROM Mhs LEFT JOIN KRS

ON Mhs.NPM = KRS.NPM;

SELECT Kuliah.KodeMK, Kuliah.NamaMK, Jadwal.HariKuliah, Jadwal.JamMulai, Jadwal.JamSelesai, Jadwal.Dosen, Dosen.NamaDosen FROM Kuliah

INNER JOIN Jadwal

ON Kuliah.KodeMK = Jadwal.KodeMK

INNER JOIN Dosen ON

Dosen.SandiDosen = Jadwal.Dosen;

SELECT Dosen.SandiDosen, Dosen.NamaDosen, COUNT((SELECT KodeMK FROM Jadwal WHERE KodeMK = Kuliah.KodeMK)) AS JumlahMK

FROM Dosen INNER JOIN Jadwal

ON Dosen.SandiDosen = Jadwal.Dosen

INNER JOIN Kuliah ON Kuliah.KodeMK = Jadwal.KodeMK GROUP BY Jadwal.Dosen;

SELECT Mhs.NPM, Mhs.Nama, (SELECT KodeMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) as KodeMK,

(SELECT NamaMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS NamaMK,

(SELECT SKS FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS SKS,

KRS.HurufMutu AS HurufMutu,

(SELECT NamaDosen FROM Dosen WHERE SandiDosen = (SELECT Dosen FROM Jadwal WHERE KodeMK = KRS.KodeMK)) AS NamaDosen

FROM Mhs

INNER JOIN KRS

ON Mhs.NPM = KRS.NPM

WHERE KRS.HurufMutu='A';

CREATE Index MhsX ON Mhs(Nama);

CREATE VIEW DaftarNilai AS

SELECT KRS.NPM, Mhs.Nama, (SELECT KodeMK FROM Kuliah WHERE KodeMK = KRS.KodeMK) AS KodeMK,

(SELECT NamaMK FROM Kuliah WHERE KodeMK=KRS.KodeMK) AS NamaMK,

(SELECT SKS FROM Kuliah WHERE KodeMK=KRS.KodeMK) AS SKS, KRS.HurufMutu AS HurufMutu,

(SELECT NamaDosen FROM Dosen WHERE SandiDosen = (SELECT Dosen FROM Jadwal WHERE KodeMK=KRS.KodeMK)) AS NamaDosen

FROM Mhs INNER JOIN KRS ON Mhs.NPM = KRS.NPM WHERE Mhs.NPM='140810210002';

CREATE VIEW IPMahasiswa AS

SELECT Mhs.NPM, Mhs.Nama,

SUM((((SELECT SKS FROM Kuliah WHERE KodeMK = KRS.KodeMK) \* KRS.AngkaMutu)/(SELECT SUM(SKS) FROM Kuliah WHERE semester='01'))) AS IP

FROM Mhs INNER JOIN KRS ON Mhs.NPM = KRS.NPM WHERE KRS.KodeMK

IN (SELECT KodeMK FROM Kuliah WHERE semester='01') GROUP BY NPM;