CREATE TABLE Role(

idRole int PRIMARY KEY AUTO\_INCREMENT NOT NULL,

role varchar(40) not null

);

CREATE TABLE Khoa(

MaKhoa varchar(8) PRIMARY KEY NOT NULL,

TenKhoa varchar(8) NOT NULL

);

CREATE TABLE Lop(

MaLop varchar(8) PRIMARY KEY NOT NULL,

TenLop varchar(6) NOT NULL,

MaKhoa varchar(8),

KhoaHoc varchar(9),

CONSTRAINT fk\_lop\_Khoa FOREIGN KEY (MaKhoa) REFERENCES Khoa(MaKhoa)

);

CREATE TABLE MonHoc(

MaMH varchar(8) PRIMARY KEY NOT NULL,

TenMH varchar(40) NOT NULL,

MaKhoa varchar(8),

CONSTRAINT fk\_MonHoc\_Khoa FOREIGN KEY (MaKhoa) REFERENCES Khoa(MaKhoa)

);

CREATE TABLE NguoiDung(

MaND varchar(8) PRIMARY KEY NOT NULL,

TenND varchar(40) NOT NULL,

idRole int,

CONSTRAINT fk\_NguoiDung\_Role FOREIGN KEY (idRole) REFERENCES Role(idRole)

);

CREATE TABLE LopNguoiDung(

MaLop varchar(8),

MaND varchar(8),

CONSTRAINT fk\_LopND\_Lop FOREIGN KEY (MaLop) REFERENCES Lop(MaLop),

CONSTRAINT fk\_LopND\_ND FOREIGN KEY (MaND) REFERENCES NguoiDung(MaND)

);

CREATE TABLE NguoiDungMonHoc(

MaND varchar(8),

MaMH varchar(8),

CONSTRAINT fk\_NDMH\_ND FOREIGN KEY (MaND) REFERENCES NguoiDung(MaND),

CONSTRAINT fk\_NDMH\_MH FOREIGN KEY (MaMH) REFERENCES MonHoc(MaMH)

);

CREATE TABLE SinhVien(

MaSV varchar(8) PRIMARY KEY NOT NULL,

TenSV varchar(40) NOT NULL,

NgaySinh datetime,

MaLop varchar(8),

HeDaoTao varchar(20),

Diachi varchar(200),

GioiTinh int,

DienThoai varchar(10),

CONSTRAINT fk\_HocSinh\_Lop FOREIGN KEY (MaLop) REFERENCES Lop(MaLop)

);

CREATE TABLE Diem(

MaSV varchar(8),

MaMH varchar(8),

LanThi int,

DiemLyThuyet int,

DiemThucHanh int,

MaND varchar(8),

CONSTRAINT fk\_Diem\_SinhVien FOREIGN KEY (MaSV) REFERENCES SinhVien(MaSV),

CONSTRAINT fk\_Diem\_MH FOREIGN KEY (MaMH) REFERENCES MonHoc(MaMH),

CONSTRAINT fk\_Diem\_ND FOREIGN KEY (MaND) REFERENCES NguoiDung(MaND)

);

CREATE TABLE RoleNguoiDung(

idRole int,

MaND varchar(8),

QLSV boolean,

QLGV boolean,

QLRole boolean,

QLKhoa boolean,

QLMonHoc boolean,

QLDiem boolean,

QLLop boolean,

CONSTRAINT fk\_RoleNguoiDung\_Role FOREIGN KEY (idRole) REFERENCES Role(idRole),

CONSTRAINT fk\_RoleNguoiDung\_NguoiDung FOREIGN KEY (MaND) REFERENCES NguoiDung(MaND)

);

Slide cần có dfd, erd, table diagram

Chữ nhật bo tròn 4 cạnh: hệ thống

Chữ nhật: tác nhân

Mũi tên: luồng dữ liệu

Context diagram: biểu đồ tổng quan

Mũi tên vào db: thêm sửa xóa

Mũi tên đi ra: view, tìm kiếm