-- cau 2

create table student(

Id number(5)primary key not null,

Firstname varchar2(50),

Lastname varchar2(50),

DateOfBirth date,

Address varchar2(100),

Gender varchar2(20)

);

create sequence Id minvalue 1 start with 1 cache 11;

-- cau3

alter table student

add(

Note varchar2(50),

Email varchar2(50),

PlaceOfBirth varchar2(50),

Address2 varchar2(100)

);

-- cau4

alter table student modify(

Gender varchar2(250) check (Gender in ('male','female')),

Email varchar2(250)

);

-- cau5

insert into student(Id,Firstname,Lastname,DateOfBirth,Address,Gender,Email,PlaceOfBirth,Note) values ('1','Nguyễn Minh','Thông',to\_date('20000219','YYYYMMDD'),'Tp. Hồ Chí Minh','male','thong.minh@oum.edu.vn','Vũng Tàu','Lớp trưởng');

insert into student(Id,Firstname,Lastname,DateOfBirth,Address,Gender,Email,PlaceOfBirth,Note) values ('2','Lê Văn','Nam',to\_date('19950513','YYYYMMDD'),'Bến Tre','male','name.lv@hutech.edu.vn','Đồng Nai','Lớp phó');

insert into student(Id,Firstname,Lastname,DateOfBirth,Address,Gender,Email,PlaceOfBirth,Note) values ('3','Nguyễn Thị','Ngọc',to\_date('19980820','YYYYMMDD'),'Bình Dương','female','ngocthi@gmail.com','Hà Giang',null);

insert into student(Id,Firstname,Lastname,DateOfBirth,Address,Gender,Email,PlaceOfBirth,Note) values ('4','Võ Văn','Minh',to\_date('20010326','YYYYMMDD'),'Thanh Hóa','male','minhvo@email.com','Tiền Giang',null);

insert into student(Id,Firstname,Lastname,DateOfBirth,Address,Gender,Email,PlaceOfBirth,Note) values ('5','Phan Thị Thanh','Trúc',to\_date('20020705','YYYYMMDD'),'Đồng Nai','female','tructhanh@hutech.edu.vn','Bến Tre',null);

-- cau6

--a,Create query to get all the fields of the Student table.

select \* from student;

--b,Create query to get 3 fields: Id, Firstname, Lastname.

select Id, Firstname, Lastname from student;

--c,Create query to get 3 fields: Id, Fullname, Address (firstname and lastname is in 1 field).

select Id, Firstname || ' ' || Lastname as "Full name", Address from student;

--d,Create query to get 3 fields: Id, Fullname, Address. Sort the name from A – Z.

select Id, Firstname || ' ' || Lastname as "Full name", Address

from student

order by Lastname ASC;

--e,Create query to get 4 fields: Id, Fullname, DateOfBirth, Address. Descending arrangement the DateOfBirth field.

select Id, Firstname || ' ' || Lastname as "Full name",DateOfBirth, Address

from student

order by DateOfBirth DESC;

--f,Create query to get 4 fields: Id, Fullname, Age, Address. Get only students whose address begins with the letter: "T".

select Id, Firstname || ' ' || Lastname as "Full name",floor(months\_between(sysdate,DateOfBirth)/12) as Age, Address

from student

where Address like 'T%'

order by Address;

--g,Create query to get 4 fields: Id, Fullname, Age, Address. Get only students whose age > 25.

select Id, Firstname || ' ' || Lastname as "Full name",floor(months\_between(sysdate,DateOfBirth)/12) as Age, Address

from student

where floor(months\_between(sysdate,DateOfBirth)/12) >25

order by DateOfBirth;

--h,Create query to get 5 fields: Id, Fullname, Age, Gender, Address. Get only students whose gender is male and age > 20 or gender is female and age > 18.

insert into student(Id,Firstname,Lastname,DateOfBirth,Address,Gender,Email,PlaceOfBirth,Note) values ('6','Phan Thị Thanh','Tâm',to\_date('20050705','YYYYMMDD'),'Lào Cai','female','thanhtam@gmail.com','Lạng Sơn',null);

select Id, Firstname || ' ' || Lastname as "Full name",floor(months\_between(sysdate,DateOfBirth)/12) as Age,Gender, Address

from student

where (Gender = 'male' and floor(months\_between(sysdate,DateOfBirth)/12) >20) or (Gender = 'female' and floor(months\_between(sysdate,DateOfBirth)/12) >18)

order by gender, DateOfBirth;