CREATE DATABASE quanlythuctap;

USE quanlythuctap;

CREATE TABLE tbl\_khoa (

id INT PRIMARY KEY AUTO\_INCREMENT,

maKhoa VARCHAR(10) NOT NULL,

tenKhoa VARCHAR(50) NOT NULL,

sdt VARCHAR(20) NOT NULL

);

CREATE TABLE tbl\_giangvien (

id INT PRIMARY KEY AUTO\_INCREMENT,

maGV VARCHAR(10) NOT NULL,

tenGV VARCHAR(50) NOT NULL,

luong INT NOT NULL,

maKhoa VARCHAR(10) NOT NULL

);

CREATE TABLE tbl\_sinhvien (

id INT PRIMARY KEY AUTO\_INCREMENT,

maSV INT NOT NULL,

tenSV VARCHAR(50) NOT NULL,

maKhoa VARCHAR(10) NOT NULL,

namSinh INT DEFAULT NULL,

queQuan VARCHAR(50)

);

CREATE TABLE tbl\_huongdan (

id INT PRIMARY KEY AUTO\_INCREMENT,

maSV INT NOT NULL,

maDT VARCHAR(10) NOT NULL,

maGV INT NOT NULL,

ketQua VARCHAR(10) DEFAULT NULL

);

CREATE TABLE tbl\_detai (

id INT PRIMARY KEY AUTO\_INCREMENT,

maDT VARCHAR(10) NOT NULL,

tenDT VARCHAR(50) NOT NULL,

kinhPhi INT NOT NULL,

noiThucTap VARCHAR(50) NOT NULL

);

INSERT INTO tbl\_giangvien (maGV, tenGV, luong, maKhoa) VALUES

(1, 'Nguyen Van A', 678989898, '1T'),

(2, 'Tran Quang B', 560000000, '2D'),

(3, 'Ho Van C', 587000000, '3C'),

(4, 'Ngo Thi D', 6400000, '2D'),

(5, 'Le Van E', 64400000, '1T'),

(6, 'Do Thanh F', 875500000, '3C'),

(7, 'Tran Van G', 80000000, '1T'),

(8, 'Nguyen Van H', 878000000, '5S');

INSERT INTO tbl\_khoa (maKhoa, tenKhoa, sdt) VALUES

('1T', 'Toan', '099987565'),

('2D', 'Dia ly', '09554765757'),

('3C', 'CNTT', '099987945'),

('4H', 'Hoa', '096574535'),

('5S', 'Su', '8832454535'),

('6G', 'GDQP', '0988456632');

INSERT INTO tbl\_sinhvien (maSV, tenSV, maKhoa, namSinh, queQuan) VALUES

(1, 'Nguyen Van A', '1T', 2002, 'Ha Noi'),

(2, 'Tran Van B', '2D', 2001, ‘Ha Noi'),

(3, 'Pham Thi C', '2D', 2002, 'Ha Noi'),

(4, 'Hoang Van D', '3C', 2002, 'Hai Phong'),

(5, 'Le Thi E', '1T', 1999, 'Ha Noi'),

(6, 'Do Van F', '5S', 1999, 'Ha Noi'),

(7, 'Vo Thi G', '6G', 2000, 'Ha Noi'),

(8, 'Ngo Van H', '1T', 2002, 'Ha Noi');

INSERT INTO tbl\_detai (maDT, tenDT, kinhPhi, noiThucTap) VALUES

('TN', 'Trieu Nguyen', 5000000, 'Ha Noi'),

('TD', 'Trieu Dinh', 8000000, 'Ha Noi'),

('TTL','Trieu Tien Le', 6000000, 'Ha Noi'),

('TH', 'Trieu Ho', 7000000, 'Hai Phong'),

('THL', 'Trieu Hau Le', 9000000, 'Ha Noi');

INSERT INTO tbl\_huongdan (maSV, maDT, maGV, ketQua) VALUES

(1, 'TN' , 1, ‘Tot’),

(2, 'TD', 2, ‘Kha’),

(3, 'TTL', 3, ‘Tot’),

(5, 'THL', 5, ‘Kha’);

1.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) tbl\_giangvien.maGV,tbl\_giangvien.tenGV,tbl\_khoa.tenKhoa FROM tbl\_giangvien JOIN tbl\_khoa ON tbl\_giangvien.maKhoa = tbl\_khoa.maKhoa;

2. [SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) tbl\_giangvien.maGV,tbl\_giangvien.tenGV,tbl\_khoa.tenKhoa FROM tbl\_giangvien JOIN tbl\_khoa ON tbl\_giangvien.maKhoa = tbl\_khoa.maKhoa WHERE tbl\_khoa.tenKhoa= "Dia Ly";

3.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [COUNT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(\*) AS soSinhVien FROM tbl\_sinhvien JOIN tbl\_khoa ON tbl\_sinhvien.maKhoa = tbl\_khoa.maKhoa WHERE tbl\_khoa.tenKhoa= "CNTT";

4.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) tbl\_sinhvien.maSV,tbl\_sinhvien.tenSV,tbl\_sinhvien.namSinh FROM tbl\_sinhvien JOIN tbl\_khoa ON tbl\_sinhvien.maKhoa = tbl\_khoa.maKhoa WHERE tbl\_khoa.tenKhoa= "Toan";

5.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) [COUNT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(\*) AS soGiangVien FROM tbl\_giangvien JOIN tbl\_khoa ON tbl\_giangvien.maKhoa = tbl\_khoa.maKhoa WHERE tbl\_khoa.tenKhoa= "CNTT";

6.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) tbl\_sinhvien.\* FROM tbl\_sinhvien [LEFT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/string-functions.html%23function_left) JOIN tbl\_huongdan ON tbl\_sinhvien.maSV = tbl\_huongdan.maSV WHERE tbl\_huongdan.maSV [IS](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/comparison-operators.html%23operator_is) NULL;

7.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) tbl\_khoa.maKhoa, tbl\_khoa.tenKhoa, [COUNT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/aggregate-functions.html%23function_count)(tbl\_giangvien.id) AS soGiangVien FROM tbl\_giangvien JOIN tbl\_khoa ON tbl\_giangvien.maKhoa = tbl\_khoa.maKhoa GROUP BY tbl\_khoa.maKhoa;

8.

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html) tbl\_khoa.sdt FROM tbl\_khoa JOIN tbl\_sinhvien ON tbl\_sinhvien.maKhoa = tbl\_khoa.maKhoa WHERE tbl\_sinhvien.tenSV = "Nguyen Van A";