use master

go

create database DeptEmp

on primary(

name='DeptEmp\_dat',

filename='D:\SQL\DeptEmp.mdf',

size=10MB,

maxsize=50MB,

filegrowth=5MB

)

log on(

name='DeptEmp\_log',

filename='D:\SQL\DeptEmp.ldf',

size=1MB,

maxsize=5MB,

filegrowth=10%

)

use DeptEmp

go

create table Department(

DepartmentNo int not null primary key,

DepartmentName char(25) not null,

locations char(25) not null

)

create table Employee(

EmpNo int not null primary key,

Fname varchar(15) not null,

Lname varchar(15) not null,

Job varchar(25) not null,

HireDate datetime not null,

Salary numeric not null,

Commision numeric,

DepartmentNo int,

constraint fk\_Employee\_Department foreign key(DepartmentNo) references Department(DepartmentNo)

)

go

insert into Department values(10,'Accounting','Melbourne')

insert into Department values(20 ,'Research','Adealide')

insert into Department values(30,'Sales','Sydney')

insert into Department values(40,'Operations','Perth')

insert into Employee(EmpNo,Fname,Lname,Job,HireDate,Salary,DepartmentNo) values(1 ,'John','Smith','Clerk','17-Dec-1980',800,20)

insert into Employee values(2,'Peter','Allen','Salesman','20-Feb-1981',1600,300,30)

insert into Employee values(3,'Kate','Ward','Salesman','22-Feb-1981',1250,500,30)

insert into Employee(EmpNo,Fname,Lname,Job,HireDate,Salary,DepartmentNo) values(4,'Jack','Jones','Manager','02-Apr-1981',2975,20)

insert into Employee values(5,'Joe','Martin','Salesman','28-Sep-1981',1250,1400,30)

--1

select \*from Department

--2

select \*from Employee

--3 Hiển thị employee number, employee first name và employee last name

-- từ bảng Employee mà employee first name có tên là ‘Kate’.

select EmpNo,Fname,Lname from Employee

where Fname='Kate'

--4 Hiển thị ghép 2 trường Fname và Lname thành Full Name, Salary, 10%Salary (tăng 10% so với lương ban đầu).

select Fname +' '+Lname as'FULLNAME',Salary,Salary\*0.1 as'TONGLUONG'

from Employee

--5 Hiển thị Fname, Lname, HireDate cho tất cả các Employee có HireDate là năm 1981 và sắp xếp theo thứ tự tăng dần của Lname.

select Fname,Lname,HireDate from Employee

where YEAR(HireDate)=1981 order by Lname ASC

--6.Hiển thị trung bình(average),

--lớn nhất (max) và nhỏ nhất(min) của lương(salary)

--cho từng phòng ban trong bảng Employee

select AVG(Salary)as 'TRUNGBINH',

MAX(Salary) as'MAX',

MIN(Salary)as'MIN'

from Employee

group by DepartmentNo

--7 Hiển thị DepartmentNo và số người có trong từng phòng ban có trong bảng Employee.

select DepartmentNo, count(\*) as'SONGUOI' from Employee

group by DepartmentNo

--8

select Department.DepartmentNo,Department.DepartmentName,

Employee.FName+' '+Employee.LName as 'Fullname',Employee.Job,Employee.Salary

from Department inner join Employee

on Department.DepartmentNo=Employee.DepartmentNo

--9 Hiển thị DepartmentNo, DepartmentName,

--Location và số người có trong từng phòng ban của bảng Department và bảng Employee.

select Department.DepartmentName,Department.locations,Employee.DepartmentNo, COUNT(\*) as'SONGUOI'

from Department inner join Employee

on Department.DepartmentNo=Employee.DepartmentNo

group by Employee.DepartmentNo

--9.

select count(\*)AS 'Tongnguoi',Employee.DepartmentNo into SoNguoi

from Employee

group by Employee.DepartmentNo

--Dung bang phu de ket noi

select Department.DepartmentNo,Department.DepartmentName,Department.locations,SoNguoi.Tongnguoi

from Department inner join SoNguoi

on Department.DepartmentNo=SoNguoi.DepartmentNo

Bài 2

use master

go

create database MarkMana

on primary(

name='MarkMana\_dat',

filename='D:\SQL\MarkMana.mdf',

size=10MB,

maxsize=50MB,

filegrowth=5MB

)

log on(

name='MarkMana\_log',

filename='D:\SQL\MarkMana.ldf',

size=1MB,

maxsize=5MB,

filegrowth=10%

)

use MarkMana

go

create table Students(

StudentsID nvarchar(12) not null primary key,

StudentName nvarchar(25) not null,

DateOfBirth Datetime not null,

Email nvarchar(40),

Phone nvarchar(12),

Class nvarchar(10)

)

create table Subjects

(

SubjectID nvarchar(10) not null primary key,

Subjectname nvarchar(25) not null

)

create table Mark(

StudentsID nvarchar(12) not null,

SubjectID nvarchar(10) not null,

Dateofbirth datetime,

Theory tinyint,

practical tinyint

constraint PK\_Mark primary key(StudentsID,SubjectID),

constraint fk\_Mark\_Students foreign key(StudentsID) references

Students(StudentsID),

constraint fk\_Mark\_Subject foreign key(SubjectID) references

Subjects(SubjectID)

)

go

insert into Students values('AV0807005',N'Mail TrungHiếu','11/10/1989','trunghieu@yahoo.com','0904115116','AV1')

insert into Students values('AV0807006',N'Nguyễn QuýHùng','2/12/1988','quyhung@yahoo.com','0955667787','AV2')

insert into Students values('AV0807007',N'Đỗ ĐắcHuỳnh','2/1/1990','dachuynh@yahoo.com','0988574747','AV2')

insert into Students values('AV0807009',N'An ĐăngKhuê','6/3/1986','dangkhue@yahoo.com','0986757463','AV1')

insert into Students values('AV0807010',N'Nguyễn T.TuyếtLan','12/7/1989','tuyetlan@gmail.com','0983310342','AV2')

insert into Students(StudentsID,StudentName,DateOfBirth,Email,Class)

values('AV0807011',N'Đinh PhụngLong','2/12/1990','phunglong@yahoo.com','AV1')

insert into Students(StudentsID,StudentName,DateOfBirth,Email,Class)

values('AV0807012','Nguyễn TuấnNam','2/3/1990','tuannam@yahoo.com','AV1')

insert into Subjects values('S001','SQL')

insert into Subjects values('S002','JavaSimplefield')

insert into Subjects values('S003','ActiveServer Page')

insert into Mark values('AV0807005','S001','6/5/2008','8','25')

insert into Mark values('AV0807006','S002','6/5/2008','16','30')

insert into Mark values('AV0807007','S001','6/5/2008','10','25')

insert into Mark values('AV0807009','S003','6/5/2008','7','13')

insert into Mark values('AV0807010','S003','6/5/2008','9','16')

insert into Mark values('AV0807011','S002','6/5/2008','8','30')

insert into Mark values('AV0807012','S001','6/5/2008','7','31')

insert into Mark values('AV0807005','S002','6/6/2008','12','11')

insert into Mark values('AV0807004','S003','6/6/2008','11','20')

insert into Mark values('AV0807010','S001','6/6/2008','7','6')

select \*from Mark

--1

select \*from Students

--2

select \*from Subjects

--3

UPDATE Students

SET Class='AV2'

WHERE StudentsID = 'AV0807012'

--4

SELECT Class, COUNT(Class)

FROM Students

GROUP BY Class

--4 cách 2

/\*SELECT Count(\*) as 'Tong sinh vien lop AV1'

FROM Students

WHERE Class = 'AV1'

SELECT Count(\*) as 'Tong sinh vien lop AV2'

FROM Students

WHERE Class = 'AV2'

\*/

--5

SELECT \* FROM Students

WHERE Class = 'AV2'

ORDER BY StudentsID ASC

--6

SELECT \* FROM Students

WHERE StudentsID IN (SELECT StudentsID

FROM Mark

WHERE SubjectID='S001' AND Theory < 10 AND Dateofbirth = '6/5/2008')

--7

SELECT COUNT(StudentsID) AS 'Tong so SV truot'

FROM Students

WHERE StudentsID IN (SELECT StudentsID

FROM Mark

WHERE SubjectID='S001' AND Theory < 10)

--8

SELECT \* FROM Students

WHERE (Class = 'AV1' AND Dateofbirth > '1/1/1980')

--9

DELETE FROM Students

WHERE (StudentsID = 'AV0807011')

--10

SELECT Mark.StudentsID, StudentName, Theory, Practical,Dateofbirth

FROM Mark

INNER JOIN Students ON Students.StudentsID = Mark.StudentsID

INNER JOIN Subjects ON Subjects.SubjectID = Mark.SubjectID

WHERE (Mark.SubjectID = 'S001' AND Dateofbirth = '6/5/2008')