create database work

use work

create table institute(instid char(5) primary key,name char(20),

streetname char(20),city char(15),

established char(5))

select \* from institute

alter table institute add founder char(20)

alter table institute alter column streetname char(15)

create table branch(bid char(4) primary key,name char(20),mobno char(10),

location char(20),branchmanager char(20),

instid char(5) foreign key references institute(instid))

select \* from branch

insert into institute values('INST1','SAIRAM INST','MADURANAGAR','HYDERABAD','2012','91','9848247725','SREENIVAS')

create table course(courseid char(5) primary key,cname char(20),duration char(10))

INSERT INTO BRANCH VALUES('B5','KPHB','9642786444','HYDERABAD','SRINIVAS','INST1')

SELECT \* FROM BRANCH

SELECT \* FROM COURSE

ALTER TABLE COURSE ADD COURSEFEE MONEY CHECK (COURSEFEE>5000),

TYPEOFCOURSE CHAR(10),

BRCHID CHAR(4) FOREIGN KEY REFERENCES BRANCH(BID)

INSERT INTO COURSE VALUES('C7','SQL','1MONTH',15000.00,'ONFLINE','B2')

create table coursebranch(courseid char(5) foreign key references course(courseid),

branchid char(4) foreign key references branch(bid),

fee money,duration char(10))

insert into coursebranch values('c4','b1',15000,'1month')

select \* from coursebranch

alter table coursebranch add intime time,outtime time

update coursebranch set duration='45days' where branchid='b3'

select \* into coursebranch1 from coursebranch

insert into coursebranch1 select \* from coursebranch

begin tran

update coursebranch set duration='30days' where branchid='b2'

commit

rollback

select \* from coursebranch order by courseid,branchid

INSERT INTO course values('c8','sql','20 days',15000.00,'online',null)

alter table coursebranch drop column duration

select \* from course

select \* from coursebranch

select cb.courseid,c.cname,c.typeofcourse

from coursebranch cb full outer join course c

on cb.courseid=c.courseid

SELECT

\*

FROM

SYSOBJECTS

create table branch(bid char(5)primary key,branch char(3),

bookid char(5) foreign key references library(bookid))

alter table branch add bookid char(5) foreign key references library(bookid)

insert into branch values('b3','it','b105')

select \* from branch

select \* from library

select \* from student

select s.stdid,s.stdbranch,l.bookid,l.booktitle from

student s right outer join library l on s.stdid=l.stdid

inner join branch b on l.bookid=b.bookid

select \* from branch

create function getstudentdetails (@stdid char(5))

returns char(15)

as

begin

declare @id char(5)

set @id=@stdid

return(select stdname from student where stdid=@id)

end

select dbo.getstudentdetails('e2')

select CONCAT(UPPER(LEFT(stdName,1)),SUBSTRING(stdNAME, 2, LEN(stdName)-2)+UPPER(RIGHT(stdName,1)))

from student

select upper(right(stdname,3)) from student

select upper(left(stdname,1)) from student

select left(stdname, 2) + upper(substring(stdname, 3, 1)) + substring(stdname, 4, len(stdname))

from student

create function changename4(@name char(10))

returns char(10)

as

begin

declare @changename char(10)

set @changename=upper(left(@name,1))+lower(substring(@name,2, 1)) + upper(substring(@name, 3, 1))

+ substring(@name, 4, len(@name))

return(@changename)

end

select dbo.changename4('sowmya')

create function middleletter8(@name varchar(max))

returns varchar(max)

as

begin

declare @changename varchar(max)

set @changename=upper(substring(@name,1,1))+lower(substring(@name,2,LEN(@Name)/2-1))+

upper(substring(@Name,LEN(@Name)/2+1,1))

+lower(substring(@name,LEN(@Name)/2+2,len(@name)))

return (@changename)

end

select dbo.middleletter8 (stdname) ,dbo.middleletter8(stdbranch) from student

select \* from course

--len(@name)%2 != 0

--then substring(@name,len(@name)/2+1,1)

--else substring(@name,len(@name)/2,1)

select \* from student

insert into student values('e3','srinu','ece')

select substring('sowmya',2,4)

select char(86)

select count(\*),object\_name(object\_id) from sys.all\_columns group by object\_id

select \* from student

select \* from library

select \* from branch

select \* from sys.all\_objects where type='u'

update branch set fee=5000 where bid='b3'

select count(\*),stdid from student group by stdid

select fset.stdid,fset.fee maxfee,sset.stdid,sset.fee minfee

from(

select stdid,fee from student s inner join branch b on

s.stdbranch=b.branch where fee=(select max(fee) from branch))

as fset

full outer join

(

select stdid,fee from student s inner join branch b on

s.stdbranch=b.branch where fee=(select min(fee) from branch))

as sset

on fset.stdid=sset.stdid

select \* from student

select \* from branch

create table branch\_audit(bid char(5),branch char(3),bookid char(5),fee money)

alter table branch\_audit drop auditaction

select \*from branch\_audit

alter trigger afterinsert3 on branch

for insert

as

declare @bid char(5)

declare @branch char(3)

declare @bookid char(5)

declare @fee money

declare @username char(40)

declare @auditaction char(50)

select @bid=i.bid from inserted i

select @branch=i.branch from inserted i

select @bookid=i.bookid from inserted i

select @fee=i.fee from inserted i

insert into branch\_audit values(@bid,@branch,@bookid,@fee,CURRENT\_USER,CURRENT\_TIMESTAMP,@auditaction)

go

insert into branch values('b11','eee','b103',5000)

select \* from branch

select \* from branch\_audit

go

insert into branch values('b4','cse','b106',500)

create table emp(empid char(5),empname char(20))

insert into emp values('1','sowmya')

create table emp\_audit(empid char(5),empname char(20),

audit\_action varchar(50),audit\_timestamp datetime)

create trigger t1 on emp

for insert

as

declare @empid char(5)

declare @empname char(20)

declare @audit\_action varchar(50)

select @empid=i.empid from inserted i

select @empname=i.empname from inserted i

print 'Inserted record after insert trigger'

insert into emp\_audit values(@empid,@empname,getdate())

insert into emp values('6','vineel')

select \* from emp\_audit

select \* from emp

select \* from branch\_audit

drop trigger tg1 on table branch

alter trigger tg1 on branch

for delete

as

declare @bid char(5)

declare @branch char(3)

declare @bookid char(5)

declare @fee money

select @bid=i.bid from inserted i

select @branch=i.branch from inserted i

select @bookid=i.bookid from inserted i

select @fee=i.fee from inserted i

print 'deleted all the rows as trigger fired'

insert into branch values(@bid,@branch,@bookid,@fee)

go

select \* from branch

delete top (1) from branch

select top 1 \* from branch

insert into branch values('b3','cse','b106',15000)

create trigger trg1 on emp

for delete

as

declare @empid char(5)

declare @empname char(20)

declare @audit\_action char(40)

declare @audit\_timestamp datetime

select @empid=i.empid from deleted i

select @empname=i.empname from deleted i

set @audit\_action='delete trigger fired'

print 'deleted the row as trigger fired'

insert into emp\_audit values(@empid,@empname,@audit\_action,getdate())

go

select \* from emp\_audit

select \* from emp

delete from emp where empid='1'

insert into emp(empid,empname) select empid,empname from emp\_audit where empid='1'

sys.all\_objects