Create table barn

(

bID char(2) Not Null Primary Key,

bname varchar(10) Not null

)

Create table Person

(

pID varchar(5) Not null primary key,

pName varchar(20) not null,

pPhone varchar(15) not null,

pAddress varchar(40) Null

)

Create table horse

(

regNumber varchar(5) Not null Primary Key,

hName varchar(20) not null,

gender char(1) not null,

type varchar(20) Not null,

purchaseDate date not null,

purchasePrice float not null,

trainedBy varchar(5) foreign key references person(pid),

stabledAt char(2) foreign key references barn(bid)

)

Create table offSpring

(

regNum varchar(5) Not null,

parent varchar(5) not null

)

Alter table offSpring Add Constraint offSpring\_regNum\_parent\_pk Primary Key (regNum, parent)

Alter table offSpring Add Constraint offSpring\_regNum\_FK foreign Key (regNum) references horse (regNumber)

Alter table offSpring Add Constraint offSpring\_parent\_FK foreign Key (parent) references horse (regNumber)

Create table ownedBy

(

regNum varchar(5) Not null,

pID varchar(5) Not null,

percentage float Null

)

Alter table ownedBy Add Constraint ownedBy\_regNum\_pID\_pk primary Key (regNum, pID)

Alter table ownedBy add Constraint ownedBy\_regNum\_fk foreign key (regNum) references horse(regNumber)

Alter table ownedBy add Constraint ownedBy\_pid\_fk foreign key (pID) references person(PID)

Create table raceSchedule

(

sID varchar(3) not null Primary Key,

year varchar(4) null,

month varchar(2) null,

day varchar(2) null

)

Create table race

(

sID varchar(3) Not Null,

rNumber int NOT NULL,

purse int NULL

)

Alter table race add constraint race\_SID\_rNumber\_PK primary key (SID, rNumber)

Alter table race add Constraint race\_sID\_fk foreign key (sID) references raceSchedule (sID)

Create table entry

(

sID varchar(3) Not null,

rNumber int not null,

gate int not null,

finalPos int null,

horse varchar(5) null,

jockey varchar(5) null

)

Alter table entry add constraint entry\_sid\_rNumber\_gate\_Pk primary key (SID, rNumber, gate)

ALTER TABLE Entry ADD CONSTRAINT entry\_sid\_rnumber\_fk FOREIGN KEY(sID, rNumber)

REFERENCES Race (sID, rNumber)

ALTER TABLE Entry ADD CONSTRAINT entry\_jockey\_fk FOREIGN KEY(jockey)

REFERENCES Person (pID)

ALTER TABLE Entry ADD CONSTRAINT entry\_horse\_fk FOREIGN KEY(horse)

REFERENCES horse (regNumber)