1)library database

create table book_authors (bookid references book(bookid) on delete set null, author_name varchar(10));

create table publisher(name varchar(10) primary key, address varchar(20), phone number(10));

create table book(bookid int primary key, title varchar(10),pub_name references publisher(name) on delete set null, pub_year number(4));

create table library_branch(programme_idint primary key, programme_name varchar(10), address varchar(20));

create table book_copies(bookid references book(bookid) on delete set null, programme_idreferences library_branch(programme_id) on delete set null, no_of_copies int);

create table book_lending(bookid references book(bookid) on delete set null, programme_id references library_branch(programme_id) on delete set null,

card_no int, date_out date, due_date date, primary key(bookid, programme_id, card_no));

insert into book_authors values('&bookid','&author_name');

insert into publisher values ('&name','&address','&phone');

insert into book values('&bookid','&title','&pub_name','&pub_year');

insert into library_branch values('&branch_id','&branch_name','&address');

insert into book_copies values('&bookid','&branch_id','&no_of_copies');

insert into book_lending values('&bookid','&branch_id','&card_no','&date_out','&due_date');

2)order database

create table salesman(salesman_id int primary key, sname varchar(10), city varchar(10), commission int);

create table customer(customer_id int primary key, cust_name varchar(10), city varchar(10), grades INT, sales_id references salesman(salesman_id) on delete cascade);

create table orders(ord_no int primary key, purchase_amt int, ord_date date, cust_id references customer(customer_id) on delete cascade, sales_id references salesman(salesman_id) on delete cascade);

insert into salesman values('&SALESMAN_ID','& SNAME','& CITY','& COMMISSION');

insert into customer values('&CUSTOMER_ID','&CUST_NAME','&city','&grades','&SALES_ID');

insert into orders values('&ord_no','&purchase_amt','&ord_date','&cust_id','&sales_id');

3) moive database

create table actor(act_id int primary key, act_name varchar(10) not null, act_gender varchar(7),);

create table director (dir_id int primary key, dir_name varchar(10), dir_phone number(10));

create table movies (mov_id int primary key, mov_title varchar(15), mov_year number(4), mov_lan g varchar(10), dir_id references director(DIR_ID) on delete cascade);

create table movie_cast (act_id references actor(ACT_ID) on delete cascade, mov_id references m ovies(mov_id) on delete cascade, role varchar(10));

create table rating(mov_id references movies(mov_id) on delete cascade, rev_stars int);

insert into actor values('&act_id','&act_name','&act_gender');

insert into director values('&dir_id','&dir_name','&dir_phone');

insert into movies values('&mov_id','&MOV_TITLE','&MOV_YEAR','&MOV_LANG','&DIR_ID');

insert into movie_cast values('&ACT_ID','&MOV_ID','&ROLE');

insert into rating values('&mov_id','&rev_stars');

4)collage database

create table student (usn int primary key, sname varchar(10) not null, address varchar(10), pho ne number(10), gender varchar(7));

create table semsec (ssid int primary key, sem int, sec varchar(2))
partition by range (sem) (partition p1 values less than (4), partition p2 values less than (8));

create table classes(usn references student (usn) on delete cascade, ssid references semsec (ss id) on delete cascade);

create table subject(sub_code varchar(8) primary key, title varchar(10), sem int, credits int) partition by range (sem) (partition p1 values less than (4), partition p2 values less than (8));

create table iamarks (usn references student (usn) on delete cascade, subcode references subject(sub_code) on delete cascade, ssid references semsec (ssid) on delete cascade, test1 int,test2 int, test3 int, finalia int);

insert into student values('&usn','&sname','&address','&phone','&gender');

insert into semsec values('&ssid','&sem','&sec')

insert into classes values('&usn','&ssid');

insert into subject values ('&sub_code','&title','&sem','&credits');

insert into iamarks values('&usn','&subcode','&ssid','&test1','&test2','&test3','&finalia');

5)employee database

CREATE TABLE department (dno NUMBER(4) CONSTRAINT department_pk PRIMARY KEY, dname VARCHAR2(30)CONSTRAINT department_name_unique UNIQUE, mgrssn NUMBER(6), mgrstartdate date);

CREATE TABLE employee (ssn NUMBER(6)CONSTRAINT employees_pk PRIMARY KEY, ename VARCHAR2(20) CONSTRAINT emp_first_name_not_null NOT NULL,address VARCHAR2(15), sex varchar(7), salary NUMBER(6), superssn CONSTRAINT emp_mgr_to_empno_fk REFERENCES employee, dno CONSTRAINT emp_to_dept_fk REFERENCES department);

create table dlocation(dno CONSTRAINT dept_to_dloc_fk REFERENCES department,dloc varchar(10));

create table project (pno int CONSTRAINT project_pk primary key, pname varchar(10) not null,
ploc varchar(10), dno CONSTRAINT proj_to_dept_fk REFERENCES department);

create table workson (ssn CONSTRAINT emp_workson_fk REFERENCES employee, pno CONSTRAINT workson_proj_fk REFERENCES project, hours int);

insert into department values('&dno','&dname','&mgrssn','&mgrstartdate');

insert into employee values('&ssn','&ename','&address','&sex','&salary','&superssn','&dno');

insert into dlocation values('&dno','&dloc');

insert into project values ('&pno','&pname','&ploc','&dno');

insert into workson values('&ssn','&pno','&hours');