1.create table Member

(

Member\_Id Number(5),

Member\_Name Varchar2(30),

Member\_address Varchar2(50),

Acc\_Open\_Date Date,

Membership\_type Varchar2(20),

Fees\_paid Number(4),

Max\_Books\_Allowed Number(2),

Penalty\_Amount Number(7,2)

);

create table Books

(

Book\_No Number(6),

Book\_Name VarChar2(30),

Author\_name Varchar2(30),

Cost Number(7,2),

Category Char(10)

);

create table Issue

(

Lib\_Issue\_Id Number(10),

Book\_No Number(6),

Member\_Id Number(5),

Issue\_Date Date,

Return\_date Date

);

2.desc Member;

desc books;

desc issue;

3.drop table member;

4.create table Member

(

Member\_Id Number(5) primary key,

Member\_Name Varchar2(30),

Member\_address Varchar2(50),

Acc\_Open\_Date Date,

Membership\_type Varchar2(20) constraint mem\_ty check(Membership\_type in('Lifetime',' Annual', 'Half Yearly','Quarterly')),

Fees\_paid Number(4),

Max\_Books\_Allowed Number(2),

Penalty\_Amount Number(7,2)

);

5.alter table member modify member\_name varchar2(30);

6.alter table issue add(Reference char(30));

7.alter table issue drop(Reference);

8.rename issue to Lib\_Issue;

9.insert into member values(1, 'Richa Sharma', 'Pune', '10-Dec-05', 'Lifetime', 25000 , 5, 50);

insert into member values(2, 'Garima Sen', 'Pune', SYSDATE, ' Annual', 1000 , 3,Null);

10.insert into member values(3, 'Rahul Gupta', 'Chennai', '16-Oct-03', 'Lifetime', 5000 , 7, 80);

insert into member values(4, 'Abhishek Jaiswal', 'Mumbai', '21-Aug-07', 'Half Yearly', 7000 , 10, 30);

insert into member values(5, 'Sooraj Nair', 'Nashik', '18-Jan-04', 'Quaeterly', 10000 , 5,70);

insert into Books values(101, 'Let us C', 'Denis Ritchie',450,'System');

insert into Books values(102, 'Oracle-Complete Ref', 'Loni',550,'Database');

insert into Books values(103, 'Mastering SQL', 'Loni',250,'Database');

insert into Books values(103, 'PL SQL-Ref', 'Scott Urman',750,'Database');

insert into Books values(105, 'OOPS', 'Scott Urman',750,'Develop');

insert into Lib\_Issue values(101,103,5,'18-Aug-17','26-Aug-17');

insert into Lib\_Issue values(102,101,1,'26-Mar-17','6-Apr-17');

insert into Lib\_Issue values(103,105,3,'28-Jun-17','8-jul-17');

insert into Lib\_Issue values(104,102,2,'08-oct-17','18-oct-17');

insert into Lib\_Issue values(105,103,4,'10-jan-17','20-jan-17');

11.alter table member modify(member\_name varchar2(20));

12.insert into member values(6,'Richa Mehta','Pune','14-oct-08','Annual',20000,110,80);

Error bcoz maxsize of max books allowed is 2 digits

13.create table member101 as (select \* from member);

14.alter table member add constraint max\_books check (max\_books\_allowed<100);

alter table member add constraint pen\_amt check (penalty\_amount<=1000);

15.drop table books;

16.create table Books

(

Book\_No Number(6) primary key,

Book\_Name VarChar2(30) not null,

Author\_name Varchar2(30),

Cost Number(7,2),

Category Char(10) constraint book\_cat check(Category in('Science','Fiction','Database','RDBMS','Others'))

);

17.insert into Books values(101, 'Let us C', 'Denis Ritchie',450,'Science');

insert into Books values(102, 'Oracle-Complete Ref', 'Loni',550,'Database');

insert into Books values(103, 'Mastering SQL', 'Loni',250,'Database');

insert into Books values(103, 'PL SQL-Ref', 'Scott Urman',750,'Database');

insert into Books values(105, 'OOPS', 'Scott Urman',750,'Science');

18.insert into books(Book\_no, Book\_name, Author\_name,Cost, Category) values(106, '&Mastering sql', '&Loni',250, 'Database');

19.create table book101

(

book\_no number(6) primary key,

book\_name varchar2(30) not null,

author\_name varchar2(30),

cost number(7,2),

category char(10)

);

20.insert into book101 select \* from books;

21.commit;

22.select \* from book101;

23.insert into books values(107,'National Geographic', 'Adis Scott', 1000, 'Science');

24.rollback;

25.update books set cost=300, category='RDBMS' where book\_no=103;

26.rename lib\_issue to issue;

27.drop table issue;

28.create table Issue

(

Lib\_Issue\_Id Number(10) primary key,

Book\_No Number(6) references Books(Book\_no),

Member\_Id Number(5) references Member(Member\_id),

Issue\_Date Date ,

Return\_date Date,

Constraint iss\_gr check(Issue\_Date< Return\_Date)

);

29.insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7001, 101, 1, '10-Dec-06');

insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7002, 102, 2, '25-Dec-06');

insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7003, 104, 1, '15-jan-06');

insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7004, 101, 1, '04-jul-06');

insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7005, 104, 2, '15-nov-06');

insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7006, 101, 3, '18-feb-06');

30.commit;

31.alter table issue disable constraint iss\_gr;

alter table issue disable constraint lib\_iss\_pk;

alter table issue disable constraint book\_no\_fk;

alter table issue disable constraint mem\_id\_fk;

32.insert into issue(Lib\_Issue\_Id, Book\_no, Member\_id, Issue\_date) values(7007, 101, 5, '18-feb-06');

33.alter table issue enable constraint iss\_gr;

alter table issue enable constraint lib\_iss\_pk;

alter table issue enable constraint book\_no\_fk;

alter table issue enable constraint mem\_id\_fk;

error:- parent key not found

34.delete from issue where lib\_issue\_id=7007;

alter table issue enable constraint mem\_id\_fk;

35.delete from member where member\_id=1;

error:-integrity constraint (SYSTEM.MEM\_ID\_FK) violated - child record found

36.update issue set return\_date='19-jul-06' where lib\_issue\_id=7004;

update issue set return\_date='30-nov-06' where lib\_issue\_id=7005;

37.update member set penalty\_amount=100 where member\_name='Garima Sen';

38.SAVEPOINT X;

39.delete from issue where member\_id=1 and issue\_date<'10-dec-06';

40.delete from books where category not in('RDBMS', 'Database') ;

41.rollback to savepoint X;

42.commit;

43.drop table member101;

44.drop table book101;

45.select \* from member;

select \* from issue;

select \* from books;

46.create sequence no\_seq

start with 100

increment by 2

maxvalue 200;

47.drop sequence no\_seq;

48.create sequence book\_seq

start with 101

increment by 1

maxvalue 1000

nocycle;

49.create sequence member\_seq

start with 1

increment by 1

maxvalue 100

nocycle;

50.drop sequence book\_seq;

drop sequence member\_seq;