1. create table member

(

member\_id NUMBER(5),

member\_name VARCHAR2(30),

member\_address VARCHAR2(30),

acc\_open\_date DATE,

membership\_type VARCHAR2(30),

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

);

1. Desc member

Desc books

Desc issue

1. drop table member;
2. create table member

(

member\_id NUMBER(5) PRIMARY KEY,

member\_name VARCHAR2(10),

member\_address VARCHAR2(30),

acc\_open\_date DATE,

membership\_type VARCHAR2(30),

CONSTRAINT chk\_membership\_type CHECK (membership\_type IN ('quarterly', 'half quaterly', 'annual',’lifetime’)),

fees\_paid NUMBER(4),

max\_books\_allowed NUMBER(2),

penalty\_amount NUMBER(7,2)

);

1. alter table member

modify member\_name VARCHAR2(30);

1. alter table issue

add reference CHAR(30);

1. alter table issue

drop column reference;

1. alter table issue

rename to lib\_issue;

1. insert into member values (5,'richa sharma','pune','10-DEC-2018','annual',2500,5,50);

insert into member values (6,'garima sen','pune','18-OCT-2018','quarterly',1000,3,NULL);

1. insert into member values (7,'karishma','mumbai','19-OCT-2018','half-quaterly',1000,3,NULL);

insert into member values (8,'garima sen','pune','18-OCT-2018','lifetime',1000,3,NULL);

insert into member values (9,'garima sen','pune','18-OCT-2018','lifetime',1000,3,NULL);

1. alter table member

modify member\_name VARCHAR2(20);

1. insert into member values (7,'hhhh sen','mumbai','17-OCT-2018','yearly',1000,110,NULL);

ORA-01438: value larger than specified precision allowed for this column

1. create table member101 as Select \* from member where member\_id=1;
2. alter table member

add constraint max\_ck check (max\_books\_allowed < 100),

alter table member

add constraint penalty\_ck check (penalty\_amount < 1001);

1. drop table books;
2. 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 chk\_category CHECK (category IN ('science','fiction','database','RDBMS'))

);

1. insert into books values (101, 'let us data', 'denis ritchie',450,'RDBMS');

insert into books values (102, 'oracle', 'loni',550,'database');

insert into books values (103, 'mastering sql', 'loni',250,'database');

insert into books values (104, 'pl sql', 'scott urman',750,'database');

insert into books values (105, 'astrology', 'niel degrass tyson',1050,'science');

1. insert into books values (105,:book\_name,:author\_name,:cost,:category);
2. create table book101 as select \* from books where 0=1;
3. Insert into book101 Select \* from books;
4. Save data
5. select \* from book101;
6. insert into books values (105, 'natural geographic', 'addis scott',1000,'science');
7. rollback;
8. update books

set cost=300

where book\_no=103;

1. alter table lib\_issue

rename to issue;

1. drop table issue;
2. create table issue

(

lib\_issue\_id NUMBER(10) PRIMARY KEY,

book\_no NUMBER(6) FOREIGN KEY,

member\_id NUMBER(5) FOREIGN KEY,

issue\_date DATE,

return\_date DATE,

constraint id\_chk check (issue\_date < return\_date)

);

1. insert into issue values (7001, 101, 1,'10-DEC-2006','');

insert into issue values (7002, 102, 2,'25-DEC-2006','');

insert into issue values (7003, 104, 1,'15-JAN-2006','');

insert into issue values (7004, 101, 1,'4-JUL-2006','');

insert into issue values (7005, 104, 2,'15-NOV-2006','');

insert into issue values (7006, 101, 3,'18-FEB-2006','');

1. Data saved
2. alter table issue

disable constraint id\_ck;

1. insert into issue values(7007,107,10,’16-JAN-2010’,’’);

1. alter table issue

enable constraint id\_ck;

ORA-02298: cannot validate (SYSTEM.MEM\_FK) - parent keys not found

1. Delete from issue where member\_id=10;
2. Delete from member where member\_id=1;

No error.

36.update issue

set return\_date = issue\_date + 15,

where lib\_issue\_id = 7004;

update issue

set return\_date = issue\_date + 15

where lib\_issue\_id = 7005;

37.update member

set penalty\_amount = 100

where member\_id = 6;

38.savpoint X;

39.delete from issue

where member\_id = 1 AND issue\_date < '10-DEC-2006';

40.delete from books

where category not in ('RDBMS','Database');

select cost+50 from books;

select concat(book\_no,cost) from books;

41.rollback to savpoint X;

42. Save data

43.drop table member101;

44. drop table book101;

45.desc member; desc issue; desc books;

46.create sequence no\_seq

start with 100

increment by 2

maxvalue 200

nocache

cycle;

47.drop sequence no\_seq;

48.create sequence book\_seq

start with 101

increment by 1

maxvalue 1000

nocache

nocycle;

49.create sequence member\_seq

start with 1

increment by 1

maxvalue 100

nocache

nocycle;

50.drop sequence book\_seq; drop sequence member\_seq;