```
Q. no.1
 create table Member(
 member_id number(5),
 member_name varchar2(20),
 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);

Q. no.2
desc member;
desc issue;
desc books;

Q.No.3
drop table member;

Q.No.4
SQL>  create table member1(
    member_id number(5) constraint member1_id_pk primary key,
    member_name varchar2(30),
     member_address varchar2(50),
     acc_open_date date,
     membership_type varchar2(20)
    check (membership_type ='Lifetime' or membership_type = 'Annual' or membersh
ip_type = 'Half Yearly' or membership_type= 'Quarterly'),
     fees_paid number(4),
     max_books_allowed number(2),
    penalty_amount number(7,2));

Q.No.5
alter table member modify (member_name varchar2(30));

Q.No.6
alter table issue add reference char(30);

Q.No.7
 alter table issue drop column reference;

Q.No.8
rename issue to lib_issue;

Q.No.9
insert into member values(1,'Richa Sharma','Pune','10-dec-05','Lifetime',2500,5,
50);
```

```
insert into member values(2,'Garma Sen','Pune',sysdate,'Annual',1000,3,null);

Q.No.10
insert into member values(3,'Manasi K','Pune',sysdate,'Annual',1000,2,null);
insert into member values(4,'Priyanka C','Mumbai','04-dec-1990','Quarterly',1000
,3,12);
insert into member values(5,'Madhuri A','Pune','03-oct-2010','Annual',1000,1,nul
l);
insert into member values(6,'Abha Khanna','Mumbai','01-sep-2001','Half Yearly',1
000,3,11);
insert into member values(7,'Mitali P','Pune',sysdate,'Annual',1000,null,10);

Q no.11
Not posssible as modifications are done from lower to higher level of variable s
ize.

Q.No.12
SQL> insert into member values(8,'Jinal P','Pune',sysdate,'Annual',1000,110,10);
insert into member values(8,'Jinal P','Pune',sysdate,'Annual',1000,110,10)
                                                                          *
ERROR at line 1:
ORA-01438: value larger than specified precision allows for this column

Since the variable size is 2.

Q,No.13
create table member101 as select * from member;

Q.No.14
alter table member1 add constraint member_books_penalty check(max_books_allowed
< 100 and penalty_amount <= 1000);



Q.No.15
drop table books;

Q.No.16
create table books_copy
 (book_no number(6) constraint books_no_pk primary key,
 book_name varchar2(30) not null,
 author_name varchar2(30),
 cost number(7,2),
 category char(10) check(category = 'Science' or category='Fiction' or category=
'Database' or category='RDBMS' or category='others'));

Qno.17-18
SQL> insert into books_copy values(&book_no,&book_name,&author_name,&cost,&categ
ory);
Enter value for book_no: 101
Enter value for book_name: 'Harry Potter'
Enter value for author_name: 'Rowling'
Enter value for cost: 500
Enter value for category: 'Fiction'
old   1: insert into books_copy values(&book_no,&book_name,&author_name,&cost,&c
ategory)
new   1: insert into books_copy values(101,'Harry Potter','Rowling',500,'Fiction
')

1 row created.
```

```
SQL> insert into books_copy values(&book_no,&book_name,&author_name,&cost,&categ
ory);
Enter value for book_no: 102
Enter value for book_name: 'Twilight'
Enter value for author_name: 'Stephenie Meyer'
Enter value for cost: 800
Enter value for category: 'Science'
old   1: insert into books_copy values(&book_no,&book_name,&author_name,&cost,&c
ategory)
new   1: insert into books_copy values(102,'Twilight','Stephenie Meyer',800,'Sci
ence')

1 row created.
```

Q.No.19
```
create table books101
 (book_no number(6) constraint books101_no_pk primary key,
 book_name varchar2(30) not null,
 author_name varchar2(30),
 cost number(7,2),
 category char(10) check(category = 'Science' or category='Fiction' or category=
'Database' or category='RDBMS' or category='others'));
```

Q.No.20
```
 insert into books101 (select * from books_copy);
```

Q.No.21
```
commit;
```

Q.No.22
```
select * from books101;
```

Q.No.23
```
insert into books_copy values(105,  'National Geographic', 'Adis Scott', 1000,
'Science');
```

Q.No.24
```
rollback;
```

Q.No.25
```
update books_copy set category='RDBMS',cost=300 where book_no=103;
```

Q.No.26
```
rename lib_issue to issue;
```

Q.No.27
```
drop table issue;
```

Q.No.28
```
create table issue_copy( lib_issue_id number(10) constraint issue_id_pk primary
key,
book_no number(6) references books_copy(book_no),
member_id number(5) references member1(member_id),
issue_date date check(issue_date <= '01-Jan-2009'),
return_date date,
check(issue_date<return_date)
);
```
In above example we can't process with system date or any system function in che
ck constraint

```
Q.No.29
insert into issue values(7001,101,1,'10-Dec-06',null);
insert into issue values(7002,102,2,'25-Dec-06',null);
insert into issue values(7003,104,1,'15-Jan-06','21-jan-06');
insert into issue values(7004,101,1,'04-Jul-06',null);
insert into issue values(7005,104,2,'15-Nov-06','26-nov-06');
insert into issue values(7006,101,3,'18-Feb-06',null);

Q.No.30
savepoint a29;

Q.No.31
alter table issue_copy disable constraint issue_id_pk;

Q.No.32
SQL>  insert into issue_copy  values(7007,101,21,'18-Feb-06',null);
 insert into issue_copy  values(7007,101,21,'18-Feb-06',null)
*
ERROR at line 1:
ORA-02291: integrity constraint (CS_2.SYS_C0013125) violated - parent key not
found

Q.No.35
It will delete the corresponding child records in other table i.e issue table

Q.no.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;

Q.No.37
update member1 set penalty_amount=100 where member_name='Garma Sen';

Q.No.38
savepoint x;

Q.No.41
rollback to savepoint x;

Q.No.42
savepoint b;

Q.No.43
drop table member101;

Q.NO.44
drop table books101;

Q.No.45
desc member
desc books
desc issue
select * from member;
select * from books;
select * from issue;

Q.No.46
create sequence no_seq
start with 100
increment by 2
maxvalue 200
```

```
NOCYCLE
NOCACHE;
```

Q.No.47
```
drop sequence no_seq;
```

Q.No.48
```
create sequence book_seq
start with 101
increment by 1
maxvalue 1000
NOCYCLE
NOCACHE;
```

Q.No.49
```
create sequence member_seq
start with 1
increment by 1
maxvalue 100
NOCYCLE
NOCACHE;
```

Q.No.50
```
drop sequence book_seq;
drop sequence member_seq;
```