```
set linesize 150;
set echo on;
drop table sungby;
drop table artist;
drop table song;
drop table album;
drop table studio;
drop table musician;
create table musician(id varchar2(5) constraint mpri primary key,
                name char(20),birthplace char(20));
insert into musician values ('m1','aj','bangalore');
insert into musician values('m2','dj','chennai');
rem // musician id is a primary key
insert into musician values('m1','vj','calcutta');
select * from musician;
create table studio(st_name char(20) constraint stpri primary key,address varchar(20),phno
number(10));
insert into studio values ('pravu','adambakkam',9988888999);
insert into studio values ('harsh','velachery',7777766666);
rem // studio name is a primary key
insert into studio values ('harsh','newcolony',7777755555);
select * from studio;
create table album (alb_name char(20),
                alb_id varchar(5) constraint albpri primary key,
                year number(4) constraint yr check(year>1945),
                track_no number(2) constraint no not null,
                genre char(10) constraint gn check(genre in('car','div','mov','pop')),
                mus varchar2(5) constraint musid references musician(id),
                studio char(20) constraint std references studio(st_name));
insert into album values ('samraj','a1',2000,3,'div','m1','pravu');
insert into album values ('yunaa','a2',2007,2,'pop','m2','harsh');
rem //album id is a primary key
insert into album values ('done','a2',2017,2,'pop','m2','harsh');
rem // year of release should be after 1945
insert into album values ('yunaa','a3',1900,2,'pop','m2','harsh');
rem // track no should not be null
insert into album values ('yunaa','a4',1900,null,'pop','m2','harsh');
rem // genre should be any of the specified values
insert into album values ('yunaa','a5',1955,2,'other','m2','harsh');
rem // musician id should be only the valus from the musician table
insert into album values ('yunaa','a4',1999,3,'pop','m3','harsh');
rem // studio name should be values from the studio table
insert into album values ('yunaa','a4',1999,3,'pop','m2','harshu');
```

```sql
select * from album;

create table song (album_id varchar2(5) constraint sng references album(alb_id),
                        track_no number(5),
                        s_name char(20),
                        length number(2),
                        s_genre varchar2(3) constraint genchk check (s_genre in
('phi','rel','lov','dev','pat')),
                        constraint songpri primary key (album_id,track_no),
                        constraint lenchk check((length>7 and s_genre='pat') or s_genre!='pat'));
insert into song values ('a1',1,'lay',5,'dev');
insert into song values ('a2',1,'fire',8,'pat');
rem // album id should be values from the album table
insert into song values ('a3',2,'high',3,'rel');
rem // genre should be a part of specified values
insert into song values ('a2',3,'fire',4,'tap');
rem // album id and track no together is a primary key
insert into song values ('a2',1,'fire',8,'pat');
rem // length should be greater than 7 for pat genre songs
insert into song values ('a2',2,'fire',4,'pat');
select * from song;

create table artist (a_id varchar2(5) constraint artpri primary key,
                a_name char(20) constraint na not null);
insert into artist values ('ar1','jack');
insert into artist values ('ar2','jill');
rem // artist id is a primary key
insert into artist values ('ar2','john');
rem // artist id should not be null
insert into artist values ('ar4','');
select * from artist;

create table sungby (al_id varchar2(5),
                        art_id varchar2(5) constraint fk1 references artist(a_id),
                        tr_no number(5),
                        ddate date,
                        constraint fk2 foreign key (al_id,tr_no) references
song(album_id,track_no),
                        constraint pk primary key (al_id,tr_no,art_id));
insert into sungby values ('a1','ar1',1,'10-JAN-2005');
insert into sungby values ('a2','ar2',1,'21-JUN-2005');
rem // artist id should be values only from the artist table
insert into sungby values ('a2','ar3',1,'21-JUN-2005');
```

```
rem // album id and track no should be values only from the song table
insert into sungby values ('a1','ar2',2,'20-JUN-2005');
rem // album id artist id and track no together should be a primary key
insert into sungby values ('a2','ar2',1,'21-JUN-2005');
```