-------------------------------------------CREATING-TABLES-------------------------------------------

------------------VENDOR-TABLE-------------------

create table vendor

(v\_id varchar2(3) primary key,

v\_name varchar2(30) not null,v\_add varchar2(30) not null,

v\_phone number not null

);

desc vendor;

------------------BRANCH-TABLE-------------------

create table branch

(b\_id varchar2(3) primary key,

b\_phone number not null,

street varchar2(30),city varchar2(30) not null,

state\_ varchar2(30) not null, pin number(10) not null

);

desc branch;

------------------STAFF-TABLE-------------------

create table staff

(s\_id varchar2(3) primary key,s\_name varchar2(30) not null,

aadhar\_no number unique,

desig varchar2(30) not null,sal number not null,

mob number not null,doj date not null,

b\_id references branch(b\_id)

);

desc staff;

------------------MANAGES-TABLE-------------------

create table manages

(mid varchar2(3) primary key,

s\_id varchar2(3) references staff(s\_id),

b\_id varchar2(3) references branch(b\_id)

);

desc manages;

------------------DVD\_STOCK-TABLE-------------------

create table dvd\_stock

(d\_id varchar2(3) primary key,

cat\_no varchar2(3),copy\_no varchar2(3),

title varchar2(30),genre varchar2(30),

rent\_cost number,rent\_status varchar2(30) check(rent\_status in('Avail','Not Avail')),

condition varchar2(30) check(condition in('Great','Good','Bad')),

main\_actor varchar2(30),main\_director varchar2(30),

b\_id references branch(b\_id)

);

desc dvd\_stock;

------------------DVD\_RACK-TABLE-------------------

create table dvd\_rack

(rack\_id varchar2(3) ,

loc\_id varchar2(3),genre varchar2(30),

d\_id varchar2(3) references dvd\_stock(d\_id)

);

desc dvd\_rack;

------------------STOCK\_AVAIL-TABLE-------------------

create table stock\_avail

(genre varchar2(30),

avail\_copies number,

cat\_no varchar2(3),

b\_id references branch(b\_id)

);

desc stock\_avail;

------------------MASTER\_MOVIE-TABLE-------------------

create table master\_movie

(cat\_no varchar2(3),

title varchar2(30),

avail\_copies number

);

desc master\_movie;

------------------MEMBERS-TABLE-------------------

create table members

(m\_id varchar2(3) primary key,

firstn varchar2(30),lastn varchar2(30),

m\_add varchar2(30),phone number,email varchar2(30),

dor date,penalty\_status varchar2(5) default 'False' check(penalty\_status in('True','False')),

badge\_type varchar2(10) default 'None' check(badge\_type in('Gold','Silver','Platinum','None')),

rent\_nos number

);

desc members;

------------------RENTS-RELATION-------------------

create table rents

(r\_id varchar2(3) primary key,

lease\_date date,return\_date date,

m\_id varchar2(3) references members(m\_id),

s\_id varchar2(3) references staff(s\_id),

d\_id varchar2(3) references dvd\_stock(d\_id)

);

desc rents;

------------------SALES-RELATION-------------------

create table sales

(sale\_id varchar2(3) primary key,

title varchar2(30),sale\_price number,

m\_id varchar2(3) references members(m\_id),

v\_id varchar2(3) references vendor(v\_id)

);

desc sales;

-------------------------------------------INSERTING INTO TABLES AND RELATIONS-------------------------------------------

------------------VENDOR-TABLE-------------------

INSERT INTO vendor values('V01','Anil','Bhopal Nagar',9876623145);

INSERT INTO vendor values('V02','Bupesh','Gandhi Chk',9885623145);

INSERT INTO vendor values('V03','Gupta','Birgunj',9876623375);

INSERT INTO vendor values('V04','Mehta','Rohini Nagar',9874823165);

INSERT INTO vendor values('V05','Sam','Raja Rani',9870023145);

select \* from vendor;

------------------BRANCH-TABLE-------------------

insert into branch values('B01',9885623145,'32','BBSR','Odisha',769003);

insert into branch values('B02',9005623145,'36','Mum','Maharashtra',788003);

insert into branch values('B03',9880023145,'38','Kol','WB',965000);

insert into branch values('B04',9885973145,'37','Delhi','Delhi',555003);

select \* from branch;

------------------STAFF-TABLE-------------------

insert into staff values('S01','Arun',1001,'Salesman',10000,9885977405,'05-12-05','B01');

insert into staff values('S02','Arunita',1002,'Salesman',10000,9095977405,'05-12-97','B01');

insert into staff values('S03','Anita',1003,'Salesman',10000,9885986405,'08-06-97','B01');

insert into staff values('S04','Barun',1004,'Manager',15000,9885026405,'08-06-96','B01');

insert into staff values('S05','Annu',1005,'Salesman',10000,9665986405,'04-07-97','B02');

insert into staff values('S06','Kamal',1006,'Salesman',10000,9665936805,'06-07-97','B02');

insert into staff values('S07','Poonam',1007,'Salesman',10000,9335986405,'04-07-97','B02');

insert into staff values('S08','Bijoy',1008,'Manager',15000,9665986777,'04-07-97','B02');

insert into staff values('S09','Komal',1009,'Salesman',10000,9665906403,'04-08-99','B03');

insert into staff values('S10','Kunal',1010,'Salesman',10000,9665906406,'04-08-99','B03');

insert into staff values('S11','Kusum',1011,'Salesman',10000,9665626403,'04-08-99','B03');

insert into staff values('S12','Kajal',1012,'Manager',15000,9665906333,'04-08-99','B03');

insert into staff values('S13','Kamlesh',1013,'Salesman',10000,8362206403,'04-08-95','B04');

insert into staff values('S14','Sejal',1014,'Salesman',10000,8368206403,'04-08-95','B04');

insert into staff values('S15','Shikhar',1015,'Salesman',10000,7262206403,'04-08-95','B04');

insert into staff values('S16','Gaurav',1016,'Manager',15000,8367306403,'04-08-95','B04');

select \* from staff;

------------------MANAGES-RELATION-------------------

insert into manages values('M01','S04','B01');

insert into manages values('M02','S08','B02');

insert into manages values('M03','S12','B03');

insert into manages values('M04','S16','B04');

select \* from manages;

------------------DVD\_STOCK-TABLE-------------------

insert into dvd\_stock values('D01','CA1','CP1','Bahubali','Action',500,'Not Avail','Great','Prabhas','S Rajamouli','B01');

insert into dvd\_stock values('D02','CA1','CP2','Bahubali','Action',500,'Not Avail','Good','Prabhas','S Rajamouli','B01');

insert into dvd\_stock values('D03','CA1','CP3','Bahubali','Action',500,'Not Avail','Great','Prabhas','S Rajamouli','B01');

insert into dvd\_stock values('D04','CA1','CP4','Bahubali','Action',500,'Avail','Bad','Prabhas','S Rajamouli','B01');

insert into dvd\_stock values('D05','CA1','CP1','Raees','Action',500,'Avail','Great','SRK','R Dholakia','B02');

insert into dvd\_stock values('D06','CA2','CP1','Boss Baby','Children',200,'Avail','Great','A Baldwin','T McGrath','B02');

insert into dvd\_stock values('D07','CA2','CP2','Boss Baby','Children',200,'Not Avail','Good','A Baldwin','T McGrath','B02');

insert into dvd\_stock values('D08','CA4','CP1','Annabelle','Horror',300,'Avail','Bad','Ed Warren','G Dauberman','B02');

insert into dvd\_stock values('D09','CA5','CP1','Baywatch','Comedy',250,'Avail','Great','Rock','S Gordon','B03');

insert into dvd\_stock values('D10','CA5','CP2','Baywatch','Comedy',250,'Avail','Good','Rock','S Gordon','B03');

insert into dvd\_stock values('D11','CA5','CP3','Baywatch','Comedy',250,'Avail','Bad','Rock','S Gordon','B03');

insert into dvd\_stock values('D12','CA5','CP4','Baywatch','Comedy',250,'Not Avail','Great','Rock','S Gordon','B03');

insert into dvd\_stock values('D13','CA4','CP2','Annabelle','Horror',300,'Avail','Bad','Ed Warren','G Dauberman','B03');

insert into dvd\_stock values('D14','CA4','CP3','Annabelle','Horror',300,'Not Avail','Great','Ed Warren','G Dauberman','B03');

insert into dvd\_stock values('D15','CA3','CP1','Boyhood','Drama',100,'Avail','Great','Ethan','Richard','B04');

insert into dvd\_stock values('D16','CA3','CP2','Boyhood','Drama',100,'Avail','Good','Ethan','Richard','B04');

insert into dvd\_stock values('D17','CA3','CP3','Boyhood','Drama',100,'Avail','Bad','Ethan','Richard','B04');

insert into dvd\_stock values('D18','CA3','CP4','Boyhood','Drama',100,'Not Avail','Great','Ethan','Richard','B04');

insert into dvd\_stock values('D19','CA2','CP3','Boss Baby','Children',200,'Not Avail','Great','A Baldwin','T McGrath','B04');

insert into dvd\_stock values('D20','CA2','CP4','Boss Baby','Children',200,'Not Avail','Bad','A Baldwin','T McGrath','B04');

select \* from dvd\_stock;

------------------DVD\_RACK-TABLE-------------------

insert into dvd\_rack values('DR1','L01','Action','D01');

insert into dvd\_rack values('DR1','L02','Action','D02');

insert into dvd\_rack values('DR1','L03','Action','D03');

insert into dvd\_rack values('DR1','L04','Action','D04');

insert into dvd\_rack values('DR1','L01','Action','D05');

insert into dvd\_rack values('DR2','L01','Children','D06');

insert into dvd\_rack values('DR2','L02','Children','D07');

insert into dvd\_rack values('DR2','L01','Children','D19');

insert into dvd\_rack values('DR2','L02','Children','D20');

insert into dvd\_rack values('DR3','L01','Drama','D15');

insert into dvd\_rack values('DR3','L02','Drama','D16');

insert into dvd\_rack values('DR3','L03','Drama','D17');

insert into dvd\_rack values('DR3','L04','Drama','D18');

insert into dvd\_rack values('DR4','L01','Horror','D08');

insert into dvd\_rack values('DR4','L01','Horror','D13');

insert into dvd\_rack values('DR4','L02','Horror','D14');

insert into dvd\_rack values('DR5','L01','Comedy','D09');

insert into dvd\_rack values('DR5','L02','Comedy','D10');

insert into dvd\_rack values('DR5','L03','Comedy','D11');

insert into dvd\_rack values('DR5','L04','Comedy','D12');

select \* from dvd\_rack;

------------------STOCK\_AVAIL-TABLE-------------------

insert into stock\_avail values('Action',1,'CA1','B01');

insert into stock\_avail values('Action',1,'CA1','B02');

insert into stock\_avail values('Children',2,'CA2','B02');

insert into stock\_avail values('Children',2,'CA2','B04');

insert into stock\_avail values('Drama',4,'CA3','B04');

insert into stock\_avail values('Horror',1,'CA4','B02');

insert into stock\_avail values('Horror',2,'CA4','B03');

insert into stock\_avail values('Comedy',4,'CA5','B03');

select \* from stock\_avail;

------------------MASTER\_MOVIE-TABLE-------------------

insert into master\_movie values('CA1','Bahubali',2);

insert into master\_movie values('CA1','Raees',1);

insert into master\_movie values('CA2','Boss Baby',4);

insert into master\_movie values('CA3','Boyhood',4);

insert into master\_movie values('CA4','Annabelle',3);

insert into master\_movie values('CA5','Baywatch',4);

select \* from master\_movie;

------------------MEMBERS-TABLE-------------------

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos,badge\_type) values('M01','Angika','Shaurya','Rkl',9665986777,'as01@gmail.com','20-03-12',3,'Silver');

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M02','Anisha','Surana','Rkl',9005986777,'as02@gmail.com','13-03-12',0);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M03','Bipasha','Dehariya','Rkl',9003286777,'bd03@gmail.com','14-03-12',0);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M04','Alok','Purohit','Rkl',6303286777,'ap04@gmail.com','15-03-12',0);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M05','Aryan','Kumar','Rkl',7803286777,'ak05@gmail.com','15-03-12',0);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M06','Angad','Veer','Rkl',9345986777,'avrx06@gmail.com','11-02-14',1);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M07','Anshul','Jain','BBSR',8645986777,'aj07@gmail.com','11-02-14',1);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M08','Anand','Sharma','Rkl',9345986789,'as08@gmail.com','11-02-14',1);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M09','Ankit','Kumar','Patna',9825986777,'ak09@gmail.com','11-02-14',1);

insert into members(m\_id,firstn,lastn,m\_add,phone,email,dor,rent\_nos) values('M10','Anshika','Bhowmik','Rkl',6645986777,'ab10@gmail.com','19-02-12',0);

update members

set penalty\_status='True' where m\_id='M06';

select \* from members;

------------------RENTS-RELATION-------------------

insert into rents values('R01','02-04-16','02-05-16','M01',null,'D07');

insert into rents values('R02','03-04-16','03-05-16','M01',null,'D19');

insert into rents values('R03','03-04-16','03-05-16','M01',null,'D20');

insert into rents values('R04','02-04-16','02-05-16','M06',null,'D12');

insert into rents values('R05','05-04-16','05-05-16','M08',null,'D18');

insert into rents values('R06','02-04-16','02-05-16',null,'S09','D03');

insert into rents values('R07','08-04-16','08-05-16',null,'S05','D14');

insert into rents values('R08','08-04-16','08-05-16','M07',null,'D01');

insert into rents values('R09','08-04-16','08-05-16','M09',null,'D02');

select \* from rents;

------------------SALES-TABLE-------------------

insert into sales values('SL1','Bahubali',300,'M09','V01');

insert into sales values('SL2','Annabelle',300,'M07','V05');

insert into sales values('SL3','Baywatch',300,'M10','V02');

insert into sales values('SL4','Boyhood',300,'M02','V04');

select \* from sales;

-------------------------------------------QUERIES-------------------------------------------

--(a)

select \* from staff

where sal>10000;

--(b)

select \* from members;

--(c)

select distinct(m.m\_id),m.phone,d.title from members m join rents r

on r.m\_id = m.m\_id join dvd\_stock d

on r.d\_id = d.d\_id and (r.lease\_date>='01-01-16' and r.lease\_date<='30-12-16')

order by m.m\_id;

--(d)

select \* from dvd\_stock

where genre='Comedy';

--(e)

select b\_id,max(sal),min(sal),avg(sal) from staff

group by b\_id

order by b\_id;

--(f)

select firstn,lastn,phone,email from members

where penalty\_status='True';

--(g)

select distinct(s.s\_id),s.s\_name,s.mob,d.title,d.genre from staff s join rents r

on r.s\_id = s.s\_id join dvd\_stock d

on r.d\_id = d.d\_id

order by s.s\_id;

--(h)

select v.v\_id,v.v\_name,v.v\_phone from vendor v join sales s

on v.v\_id = s.v\_id;

--(i)

select m.firstn,m.lastn,m.m\_add,s.sale\_price from members m join sales s

on m.m\_id = s.m\_id;

--(j)

select m.\*,r.lease\_date,r.return\_date,d.rent\_cost from members m join rents r

on r.m\_id = m.m\_id join dvd\_stock d

on r.d\_id = d.d\_id and d.title='Bahubali';

--(k)

select \* from members

where badge\_type='Platinum' and dor>='01-01-15' and dor<='30-12-15';

--(l)

select b\_id,sum(avail\_copies) as "Available Copies" from stock\_avail

group by b\_id

order by b\_id;