create database library;

use library;

create table readers (

readers\_id varchar(5),

fname varchar(20),

lname varchar(20),

dob date,

location varchar(20),

contact bigint(11),

occupation varchar(20),

constraint readers\_pk primary key(readers\_id)

);

insert into readers value('B0001','CARLA','LUCRASIA','1997-06-12','BASQUE','7856258455','STUDENT'),

('B0002','POLO','GEORGINO','1997-11-26','ARAGON','5886992365','STUDENT'),

('B0003','SAMUEL','ERICKSON','1996-03-11','BASQUE','4485693325','STUDENT'),

('B0004','MARINA','RODRIGUEZ','1997-04-15','CANARY','9985648587','STUDENT'),

('B0005','JENNY','SERAO','1980-12-25',null,'7785652248','PROFESSOR'),

('B0006','CHRISTIAN','EVA','1997-04-25','MONTELLA','4478569853','STUDENT'),

('B0007','CAYETANA','LOPARE','1996-10-24','MOTRIL','7856586589','STUDENT');

insert into readers value('B0008','ANDER','DEVASO','1996-07-08','MARTOS','4842583694','PROFESSOR'),

('B0009','OMAR','NUNIA','1998-05-23','CANARY','6565899847','STUDENT'),

('B0010','BENJAMIN','DEMARO','1978-09-19',null,'7896543215','PROFESSOR'),

('B0011','PATRIK','DEMARO','1999-05-21','MONTELLA','7891236548','STUDENT'),

('B0012','NADIA','NUNIA','1996-08-28','CANARY','4774586958','STUDENT');

insert into readers value('B0013','REBEKA','GRACIA','1998-07-10','OSUNNA','7855876985','STUDENT'),

('B0014','MENCIA','DEMARO','1998-2-20',null,'9659658569','STUDENT');

insert into readers value('B0015','IVANA','PHILLIPE','1998-10-10','CANTABRIA','8585696944','STUDENT');

create table books (

bid varchar(6),

bname varchar(40),

constraint book\_bid\_pk primary key(bid)

);

insert into books values('H0001','OOPS'),

('H0002','WEB'),

('H0003','DBMS'),

('H0004','JAVA'),

('H0005','PYTHON'),

('H0006','SQL'),

('H0007','C++'),

('H0008','.NET'),

('H0009','CYBER SECURITY'),

('H0010','CLOUD COMPUTING'),

('H0011','RUBY');

create table active\_readers (

acc\_id varchar(6),

readers\_id varchar(6),

bid varchar(6),

acctype varchar(10),

accstatus varchar(10),

constraint activereaders\_accnumber\_pk primary key(acc\_id),

constraint acc\_readerid\_fk foreign key(readers\_id) references readers(readers\_id),

constraint acc\_bid\_fk foreign key(bid) references books(bid)

);

insert into active\_readers value('A0001','B0001','H0001','PREMIUM','ACTIVE'),

('A0002','B0002','H0002','PREMIUM','ACTIVE'),

('A0003','B0003','H0002','REGULAR','TERMINATED'),

('A0004','B0004','H0003','REGULAR','ACTIVE'),

('A0005','B0005','H0004','REGULAR','ACTIVE'),

('A0006','B0006','H0005','PREMIUM','ACTIVE');

insert into active\_readers value('A0007','B0007','H0004','PREMIUM','SUSPENDED'),

('A0008','B0008','H0005','REGULAR','SUSPENDED'),

('A0009','B0009','H0008','REGULAR','ACTIVE'),

('A0010','B0010','H0009','PREMIUM','ACTIVE'),

('A0011','B0011','H0009','PREMIUM','SUSPENDED');

insert into active\_readers value('A0012','B0012','H0011','REGULAR','ACTIVE'),

('A0013','B0013','H0010','REGULAR','ACTIVE'),

('A0014','B0014','H0004','REGULAR','TERMINATED'),

('A0015','B0015','H0010','PREMIUM','ACTIVE');

create table libmanagementemp (

employee\_name varchar(20),

contact bigint(11),

age int,

salary bigint(10),

profession varchar(20)

);

insert into libmanagementemp values('CORRONA','555486578','30','35000','RECEPTIONIST'),

('SARAIO','78565895','29','36000','RECEPTIONIST'),

('NANO','77458695','27','45500','BOOKS MANAGER'),

('PHATEK','55586951','29','20000','CLEANER');

alter table readers add email varchar(50);

alter table readers modify email varchar(20);

alter table readers drop column email;

alter table books rename to bookname;

update bookname set bname='MACHINE LEARNING' where bid='H0002';

delete from active\_readers where acc\_id='A0014';

SELECT \* FROM library.readers;

select readers\_id,fname,lname,location from library.readers;

SELECT \* FROM library.readers where location='MONTELLA';

SELECT \* FROM library.readers where location='MONTELLA' and occupation='PROFESSOR'; ;

SELECT \* FROM library.readers where location='MONTELLA' or occupation='STUDENT';

SELECT \* FROM library.readers where location <> 'MONTELLA';

SELECT \* FROM library.readers where location != 'BASQUE';

SELECT \* FROM library.readers where location IN ('CANTABRIA','MONTELLA','CANARY');

select employee\_name,profession,salary,salary + (salary \* 0.25) as 'FINAL SALARY' FROM library.libmanagementemp;

select employee\_name,profession,salary,salary - (salary \* 0.05) as 'FINAL SALARY' FROM library.libmanagementemp;

SELECT \* FROM library.libmanagementemp where salary between 20000 and 35000;

SELECT \* FROM library.readers where fname like '%A';

SELECT \* FROM library.readers where fname like '\_\_R';

SELECT \* FROM library.readers where lname like 'E\_\_';

SELECT \* FROM library.readers where fname like 'C%A';

select distinct location from library.readers;

SELECT \* FROM library.readers where location is null;

SELECT \* FROM library.readers where location is not null;

SELECT \* FROM library.readers where location is not null and occupation='STUDENT';

SELECT \* FROM library.active\_readers where accstatus='terminated';

SELECT \* FROM library.active\_readers where accstatus='suspended';

select concat(fname,' ',lname) as 'full name' FROM library.readers;

select substr('LUCRASIA',1,2);

select curdate();

select now();

select month(curdate());

select date\_format("1997-06-12", "%w %Y %W");

select datediff('1997-06-12','1998-05-23');

select avg(salary) FROM library.libmanagementemp;

select count(\*) FROM library.libmanagementemp;

select count(acc\_id) from active\_readers where acctype='premium';

select max(salary) as 'HIGHEST SALARY' FROM library.libmanagementemp;

select min(salary) as 'LOWEST SALARY' FROM library.libmanagementemp;

select sum(salary) as 'TOTAL SALARY' FROM library.libmanagementemp;

select location, count(readers\_id) from readers group by location;

select location, count(readers\_id) from readers group by location having count(readers\_id) >=2;

select employee\_name,age,profession from library.libmanagementemp where salary < any (select salary from library.libmanagementemp where salary>='30000');

select employee\_name,age,profession from library.libmanagementemp where salary > any (select salary from library.libmanagementemp where salary>='30000');

select employee\_name,age,profession from library.libmanagementemp where salary = all (select salary from library.libmanagementemp where salary>='50000');

select a.bid,a.acctype,a.accstatus from library.active\_readers a inner join bookname b

where a.bid=b.bid;

select r.readers\_id,r.fname,r.lname,r.location from readers r inner join active\_readers a

where r.readers\_id=a.readers\_id;

select A.acc\_id,A.bid,A.accstatus,A.acctype from active\_readers A left join books b on A.bid=b.bid;

select A.bid,A.accstatus,A.acctype from active\_readers A right join books b on A.bid=b.bid;

select fname,lname,location from readers cross join active\_readers;

create view libraryview as select readers\_id,fname,lname,location from library.readers;

create view recordview as select b.bid,b.bname,a.readers\_id,a.acctype,a.accstatus

from bookname b ,active\_readers a where a.bid=b.bid;