1. create table student\_information(stu\_id int primary key,stu\_name varchar(20),stu\_address varchar(20),stu\_phone\_no bigint,stu\_email varchar(50),stu\_dob date);
2. insert into student\_information values(1,"ram","nagpur",8727986543,"ram@abc.com","1990-09-12",01,"electronics"),(2,"shyam","pune",9812763578,"shyam@abc.com","1990-12-23",02,"electrical"),(3,"karan","kanpur",9763542761,"karan@abc.com","1991-08

-12",03,"IT"),(4,"priya","delhi",8976354267,"priya@abc.com","1991-09-23",01,"electronics"),(5,"siya","mumbai",8156487632,"siya@abc.com","199

1-04-24",04,"civil"),(6,"priyakumari","lucknow",9127986543,"priyakumari@abc.com","1992-08-10",05,"mechanical"),(7,"sakshi","jammu",901276351

2,"sakshi@abc.com","1997-01-20",03,"IT"),(8,"rohan","chandigarh",8763542761,"rohan@abc.com","1993-05-12",04,"civil"),(9,"rajiv","jaipur",907

6894261,"rajiv@abc.com","1992-12-30",05,"mechanical"),(10,"mohena","bhopal",9029487698,"mohena@abc.com","1991-07-29",01,"electronics"),(11,"

arun","jodhpur",8937986543,"arun@abc.com","1993-01-11",02,"electrical"),(12,"rani","malegaon",9827986539,"rani@abc.com","1991-09-09",03,"IT"

),(13,"arpita","bhandara",9127988943,"arpita@abc.com","1992-05-18",04,"civil"),(14,"tarun","rachi",9527986543,"tarun@abc.com","1993-11-10",0

2,"electrical"),(15,"sonal","nagpur",8027986543,"sonal@abc.com","1991-07-16",05,"mechanical"),(16,"ajay","bhopal",9876986543,"ajay@abc.com",

"1993-01-19",05,"mechanical"),(17,"sayali","delhi",9827986543,"sayali@abc.com","1992-07-14",03,"IT"),(18,"manvi","kolhapur",8827923543,"manv

i@abc.com","1991-02-19",02,"electrical"),(19,"joyti","chandigarh",9097986543,"joyti@abc.com","1994-09-15",04,"civil"),(20,"paresh","rachi",9

712986543,"paresh@abc.com","1993-03-31",04,"civil");

1. create table book(book\_id int primary key,book\_name varchar(20),book\_price int,book\_brn\_id int,author\_name varchar(20),stu\_id int,branch\_id int,foreign key(stu\_id)references student\_information(stu\_id),foreign key(branch\_id)references branch\_information(branch\_id));
2. insert into book values(100,"basics of science",239,112233,"george.c",2),(200,"basics of math",309,223344,"handway rome",1),(300,"python for DS",557,445566,"kathy holmes",2),(400,"c++ all in one",345,556677,"jason.y",3),(500,"object oriented programming",298,667788,"william ray",5),(600,"basics of electrical",290,102033,"leonardo rain",2),(700,"basics of electronics",230,192333,"levis tatley",1),(800,"basics os technology",139,910233,"michel lauren",7),(900,"computer network",600,902138,"danny parker",7),(1000,"engg drawing",180,102133,"raman chaudhary",15),(1100,"engg drawing",180,102133,"raman chaudhary",16),(1200,"electrical circuit",220,112229,"chang deu",10),(1300,"electrical circuit",220,112229,"cheng deu",14),(1400,"structural engg",209,111936,"laura canvas",8),(1500,"environmental studies",280,1126293,"rahul ghosh",20),(1600,"construction management",939,012233,"ranchit agrawal",8),(1700,"HTML",839,092233,"megan pierce",3),(1800,"CSS",199,192232,"george markas",12),(1900,"structural design",190,152903,"yakub khan",19),(2000,"robotics",909,102278,"riyan sharma",16),(2100,"circuit design",780,182233,"george canady",14),(2200,"land survey",129,432234,"peter parker",19),(2300,"basics\_of\_science",239,112233,"george.c",2),(2400,"SQL",900,282233,"sandy milan",17),(2500,"basics of c",300,092233,"amerie nelson",12),(2600,"building structure design",879,986233,"jonny slew",13),(2700,"digital electronics",800,298233,"germy park",1),(2800,"basics\_of\_science",239,112233,"george.c",2

),(2900,"communication engg",400,927233,"andrew philip",4),(3000,"basics\_of\_science",239,112233,"george.c",2),(3100,"embedded system",600,76

5233,"levin ray",1),(3200,"python programming",290,096233,"simon anderson",17),(3300,"machine design",500,286233,"jia katwal",15);

1. create table student\_book\_issue\_details(issue\_id int primary key,issue\_date date,due\_date date ,return\_date date ,fine int, stu\_id int,book\_id int,foreign key(stu\_id)references student\_information(stu\_id),foreign key(book\_id)references book(book\_id));
2. insert into student\_book\_issue\_details values(4000,"2024-01-01","2024-02-01","2024-02-01",0,19,1900),(4100,"2024-01-12","2024-02-12","2024-02-15",15,19,2200),(4300,"2024-02-10","2024-03-10","2024-03-10",0,12,2500),(4400,"2024-01-20","2024-02-20","2024-02-20",0,12,1800),(4500,"2024-01-12","2024-02-12","2024-02-15",35,8,1600),(4600,"2024-01-02","2024-02-02","2024-02-06",15,2,3000),(4700,"2024-01-02","2024-02-02","2024-02-01",0,2,2800),(4800,"2024-01-15","2024-02-15","2024-02-20",25,2,100),(4900,"2024-01-10","2024-02-10","2024-02-14",20,2,300),(5000,"2024-02-20","2024-03-20","2024-03-30",50,12,1800),(5100,"2024-01-25","2024-02-25","2024-02-26",5,1,3100),(5200,"2024-03-20","2024-04-20","2024-04-20",0,1,2700),(5300,"2024-03-20","2024-04-20","2024-04-20",0,1,700),(5400,"2024-02-14","2024-03-14","2024-03-20",30,1,200),(5500,"2024-01-12","2024-02-12","2024-02-12",0,3,1700),(5600,"2024-01-12","2024-02-12","2024-02-19",35,3,400),(5700,"2024-04-01","2024-05-01","2024-05-01",0,5,500),(5800,"2024-04-07","2024-05-07","2024-05-10",15,15,3300),(5900,"2024-04-07","2024-05-07","2024-05-15",40,15,1000),(6000,"2024-04-03","2024-05-03","2024-05-15",70,16,1100),(6100,"2024-04-03","2024-05-03","2024-05-03",0,16,2000),(6200,"2024-05-20","2024-06-09","2024-06-20",0,10,1200),(6300,"2024-05-30","2024-06-30","2024-07-02",10,14,2100),(6400,"2024-05-10","2024-06-10","2024-06-09",0,14,1300),(6500,"2024-06-09","2024-07-09","2024-07-10",5,17,3200),(6600,"2024-06-04","2024-07-04","2024-07-03",0,17,2400),(6700,"2024-06-20","2024-07-20","2024-07-29",45,13,2600),(6800,"2024-06-17","2024-07-17","2024-07-20",15,4,2900);
3. create table transaction\_status(transaction\_id int primary key,transaction\_status varchar(20),stu\_id int,book\_id int,issue\_id int,foreign key(stu\_id)references student\_information(stu\_id),foreign key(book\_id)references book(book\_id),foreign key(issue\_id)references student\_book\_issue\_details(issue\_id));
4. insert into transaction\_status values(1001,"completed",1,3100,5100),(1002,"completed",1,200,5400),(1003,"completed",2,3000,4600),(1004,"pending",2,100,4800),(1005,"pending",2,300,4900),(1006,"completed",3,400,5600),(1007,"pending",4,2900,6800),(1008,"completed",8,1600,4500),(1009,"pending",12,1800,5000),(1010,"completed",13,2600,6700),(1011,"completed",14,2100,6300),(1012,"comple

ted",15,3300,5800),(1013,"completed",15,1000,5900),(1014,"pending",16,1100,6000),(1015,"completed",17,3200,6600),(1016,"pending",19,2200,410

0);

Setting environment for using XAMPP for Windows.

microsoft@DESKTOP-56RER9J c:\xampp

# mysql -u root

Welcome to the MariaDB monitor. Commands end with ; or \g.

Your MariaDB connection id is 9

Server version: 10.4.32-MariaDB mariadb.org binary distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use college\_database1;

Database changed

MariaDB [college\_database1]> create table student\_info(stu\_id int primary key,stu\_name varchar(20),stu\_address varchar(20),stu\_phone\_no bigint,stu\_email varchar(50),stu\_dob date);

Query OK, 0 rows affected (0.030 sec)

MariaDB [college\_database1]> desc student\_info;