**Ques 3.**

**mysql> create database twowheeler;**

**mysql> create table customer(**

**-> CustId varchar(20) primary key,**

**-> email varchar(50) not null,**

**-> Name char(30) not null,**

**-> phone varchar(10) unique,**

**-> ReferrerID varchar(20));**

**mysql> create table BicycleModel(**

**-> ModelNo varchar(10) primary key,**

**-> Manufacturer Char(20) not null,**

**-> Style Varchar(20) not null);**

**mysql> create table Bicycle(**

**-> BicycleId varchar(20) primary key,**

**-> DatePurchased date not null,**

**-> Color Char(10) not null,**

**-> CustId varchar(20) not null,**

**-> ModelNo varchar(10) not null,**

**-> foreign key(CustId) references customer(CustId),**

**-> foreign key(ModelNo) references BicycleModel(ModelNo));**

**mysql> create table Service(**

**-> StartDate date not null,**

**-> BicycleId varchar(20) not null,**

**-> EndDate date not null,**

**-> Foreign key(BicycleId) references Bicycle(BicycleId));**

**(a) Primary Key - CustId in table Customer**

**ModelNo in table BicycleModel**

**BicycleId in table Bicycle**

**Foreign Key- CustId in table Bicycle**

**ModelNo in table Bicycle**

**BicycleId in table Service**

**mysql> insert into customer values(1001,"vks1245@gmail.com","Vinay Singh",9873645321,"C1");**

**mysql> insert into customer values(1002,"kk4373@gmail.com","Krishna Kumar",8373876327,"A2");**

**mysql> insert into customer values(1003,"ravishkumar8653@gmail.com"," Ravish Kumar",9375472814,"C3");**

**mysql> insert into customer values(1004,"sumanss7368@gmail.com","Suman Singh",8293765392,"B7");**

**mysql> insert into customer values(1005,"reenasingh3753@gmail.com","Reena Singh",9375428765,"C5");**

**mysql> insert into bicyclemodel values("M101","Honda","Activa");**

**mysql> insert into bicyclemodel values("M102","Hero","Mastero");**

**mysql> insert into bicyclemodel values("M103","Bajaj","Discover");**

**mysql> insert into bicyclemodel values("M104","Hero","Splendor");**

**mysql> insert into bicyclemodel values("M105","Yamaha","FZ");**

**mysql> insert into bicycle values("B501",'2019-02-05',"Red","1002","M101");**

**mysql> insert into bicycle values("B502",'2018-05-22',"Silver","1001","M105");**

**mysql> insert into bicycle values("B503",'2020-01-03',"Red","1004","M104");**

**mysql> insert into bicycle values("B504",'2019-04-17',"blue","1003","M103");**

**mysql> insert into bicycle values("B505",'2020-02-08',"black","1002","M102");**

**mysql> insert into service values('2019-09-09','B505',"2019-09-12");**

**mysql> insert into service values('2018-10-10','B502','2018-10-12');**

**mysql> insert into service values('2018-04-24','B502','2019-04-26');**

**mysql> insert into service values('2019-05-17','B501','2019-05-19');**

**mysql> insert into service values('2020-01-18','B502','2020-01-20');**

**(b) mysql> Select \* from customer where custID in(Select custid from bicycle where modelno in(select Modelno from bicyclemodel where manufacturer="Honda"));**

**(c) mysql> Select \* from bicyclemodel where modelno in(select modelno from bicycle where custid in(select custid from customer where referrerId="C1"));**

**(d) mysql> select bm.manufacturer from bicycle as bi, bicyclemodel as bm where bi.modelno=bm.modelno and bi.color="red";**

**(e) mysql> select modelno from bicycle where bicycleid in(select distinct bicycleid from service);**