Q3

mysql> create database twowheeler;

mysql> create table customer(

-> CustId varchar(20) primary key,

-> email varchar(30) not null,

-> Name char(20) 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));

Q (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(1,"ronit132@gmail.com","ronit aggarwal",9902583646,C1001");

mysql> insert into customer values(2,"anuj453@gmail.com","Anuj bansal ",9212718927,"B1002");

mysql> insert into customer values(3,"manish992@gmail.com","manish singh",9375472814,"C1003");

mysql> insert into customer values(4,"suraj231@gmail.com","Suraj singh",9213423172,"B1007");

mysql> insert into customer values(5,"gautam628@gmail.com","Gautam jain",9890221365,C51005");

mysql> insert into bicyclemodel values(“A198","suzuki","rx7");

mysql> insert into bicyclemodel values("A187","honda","ts6");

mysql> insert into bicyclemodel values(“A177","bmw","56ty");

mysql> insert into bicyclemodel values(“A764","Hero","Bike");

mysql> insert into bicyclemodel values("A345","suzuki","Sport");

mysql> insert into bicycle values("S101",'2018-12-05',"Red","2","A198");

mysql> insert into bicycle values("S102",'2008-05-12',"BLUE","1",A345");

mysql> insert into bicycle values("S103",'2010-01-13',"grey","4","A764");

mysql> insert into bicycle values("S104",'2019-09-17',"green","3",”A177");

mysql> insert into bicycle values("S105",'2010-01-18',brown","2","A187");

mysql> insert into service values(‘2011-01-09','S105',2011-01-19");

mysql> insert into service values('2009-05-12','S102',2009-05-20');

mysql> insert into service values('2011-01-24','S103','2011-02-26');

mysql> insert into service values('2019-12-05','S101','2019-12-19');

mysql> insert into service values('2020-01-18','S104','2020-02-20');

Q (b) mysql> Select \* from customer where custID in(Select custid from bicycle where modelno in(select

Modelno from bicyclemodel where manufacturer="Honda"));

Q(c) mysql> Select \* from bicyclemodel where modelno in(select modelno from bicycle where custid

in(select custid from customer where referrerId=C1001"));

Q(d) mysql> select bm.manufacturer from bicycle as bi, bicyclemodel as bm where

bi.modelno=bm.modelno and bi.color="red";

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