TRAIN MANAGEMENT SYSTEM

create table Train(train_no int(6) primary key, name char(20),

Start_place char(10) not null, End_place char(10) not null);

insert into Train(train_no, name, Start_place, End_place)

values(13589, 'IntercityExp', 'Lucknow', 'Varanasi');

insert into Train(train_no, name, Start_place, End_place)

values(13560, 'SuperfastExp', 'Delhi', 'Mumbai');

insert into Train(train_no, name, Start_place, End_place)

values(13551, 'StateJUNC', 'Bengaluru', 'Goa');

insert into Train(train_no, name, Start_place, End_place)

values(13543, 'IntercityExp2', 'Lucknow', 'Noida');

insert into Train(train_no, name, Start_place, End_place)

values(13584, 'StateJUNC2', 'Kolkata', 'Patna');

select * from Train;

Train

train_no	name	Start_place	End_place
13589	IntercityExp	Lucknow	Varanasi
13560	SuperfastExp	Delhi	Mumbai
13551	StateJUNC	Bengaluru	Goa
13543	IntercityExp2	Lucknow	Noida
13584	StateJUNC2	Kolkata	Patna

create table Driver(name char(10), driver_id int(4), train_no int(6),

foreign key (train_no) references Train(train_no));

insert into Driver(name, driver_id, train_no)

values('ABC',123, 13589);

insert into Driver(name, driver_id, train_no)

values('DEF',135, 13560);

insert into Driver(name, driver_id, train_no)

values('GHI',246, 13551);

insert into Driver(name, driver_id, train_no)

values('JKL',147, 13543);

insert into Driver(name, driver_id, train_no)

values('MNO',365, 13584);

select * from Driver;

Driver

name	driver_id	train_no
ABC	123	13589
DEF	135	13560
GHI	246	13551
JKL	147	13543
MNO	365	13584

create table Schedule(departure_Date date, arrival_Date date, schedule_no int(2) primary key, train_no int(6), foreign key (train_no)

references Train(train_no));

insert into Schedule(departure_date, arrival_date, schedule_no, train_no)

values('2023-06-10', '2023-06-11',1, 13589);

insert into Schedule(departure_date, arrival_date, schedule_no, train_no)

values('2023-06-10', '2023-06-11',2, 13560);

insert into Schedule(departure_date, arrival_date,schedule_no, train_no)

values('2023-06-10', '2023-06-11',3, 13551);

insert into Schedule(departure_date, arrival_date,schedule_no, train_no)

values('2023-06-11', '2023-06-12',4, 13543);

insert into Schedule(departure_date, arrival_date,schedule_no, train_no)

values('2023-06-11', '2023-06-12',5, 13584);

select*from Schedule;

Schedule

departure_Date	arrival_Date	schedule_no	train_no
2023-06-10	2023-06-11	1	13589
2023-06-10	2023-06-11	2	13560
2023-06-10	2023-06-11	3	13551
2023-06-11	2023-06-12	4	13543
2023-06-11	2023-06-12	5	13584

create table Route(route_id int(5) primary key, total_stops int(2), total_fare int(4) not null, schedule_no int(2),

foreign key (schedule_no) references Schedule(schedule_no));

insert into Route(route_id, total_stops, total_fare, schedule_no)

values(20, 4, 400, 1);

insert into Route(route_id, total_stops, total_fare, schedule_no)

values(25, 12, 1200, 2);

insert into Route(route_id, total_stops, total_fare, schedule_no)

values(34, 10, 1000, 3);

insert into Route(route_id, total_stops, total_fare, schedule_no)

values(48, 10, 1000, 4);

insert into Route(route_id, total_stops, total_fare, schedule_no)

values(15, 4, 400, 5);

select*from Route;

Route

route_id	total_stops	total_fare	schedule_no
20	4	400	1
25	12	1200	2
34	10	1000	3
48	10	1000	4
15	4	400	5

update Route set schedule_no='12' where route_id='20';

select*from Route;

Output

Error: FOREIGN KEY constraint failed

update Schedule set train_no='13350' where schedule_no=10;

select*from Schedule;

Output

Error: FOREIGN KEY constraint failed

insert into Driver(name, driver_id, train_no) values('Jay', 456, 12345);

Output

Error: FOREIGN KEY constraint failed