FA20-BCE-025

FA20-BCE-041

DELIVERABLE\_3 : RELATIONAL SCHEMA

create database reservesystem

use reservesystem

create table station(

station\_id varchar(40) primary key not null,

station\_name varchar(40) not null,

operational\_cost money not null,

A\_name varchar(40) not null, --A stands for Administrator

A\_cnic bigint not null,

A\_phoneNo bigint not null,

A\_DOB date not null,

A\_gender nvarchar(10) not null,

A\_username nvarchar(40) not null,

A\_password varchar(40) not null,

);

insert into station(station\_id,station\_name,operational\_cost,A\_name,A\_cnic,A\_phoneNo,A\_DOB,A\_gender,A\_username,A\_password)

values ('RWP01','Rawalpindi Station',900000,'Peyton Goodboddy',3553715728103, 03451827327,'5/29/1996', 'Male', 'pgoodboddy0@rwp.edu', 'Coder18'),

('SAR02','Sargodha Station',700000,'Grayson Tim',3353715398903, 03335129327,'2/19/1979', 'Male', 'Tim@sar.edu', 'instict091'),

('LHR09','Lahore Station',500000,'Tim David',3453715398904, 03452451627,'2/23/1980', 'Male', 'David@lhr.edu', 'mango29'),

('ISB03','Islamabad Station',100000,'Maxwell goodby',3553713849503, 03215136592,'10/12/1993', 'Male', 'goodby@isb.edu', 'oksmko0001'),

('FAIS06','Faislabad Station',9000000,'Warner David',3553736251603, 03227384581,'02/24/1999', 'Male', 'goodby@isb.edu', 'oksmko0001')

truncate table station

select \* from station

create table employee(

E\_id nvarchar(40) primary key not null,

E\_name nvarchar(40) not null,

E\_salary money not null,

E\_designation nvarchar(40) not null,

E\_Address nvarchar(max) not null,

E\_joiningTime date not null,

E\_workTime varchar(40) not null,

station\_id varchar(40) not null,

constraint fk\_station foreign key(station\_id) references station(station\_id),

);

insert into Employee (E\_id, E\_name,E\_salary, E\_designation,E\_Address, E\_joiningTime, E\_workTime,station\_id)

values ('F01', 'Shelagh Klugel', 80000 , 'Manager', 'House no 21 Qzi St','6/30/2002', '4 hrs', 'LHR09'),

('F02', 'Tim Roger', 80000 , 'Manager', 'House no 15 Lawrence St','9/30/2000', '8 hrs', 'FAIS06'),

('F03', 'Anil Koupe', 70000 , 'Assistant', 'House no 3 Mall Rd','4/30/1996', '9 hrs', 'ISB03'),

('F04', 'Ahmed Ali', 40000 , 'Clerk', 'House no 5 Jail Rd','9/20/1998', '8 hrs', 'SAR02'),

('F05', 'Moazzam', 60000 , 'Assistant', 'House no 76 Jail Rd','6/19/1999', '7 hrs', 'RWP01'),

('F06', 'Ariagh Kornough', 90000 , 'Manager', 'House no 54 Gulberg St','7/10/1980', '8 hrs', 'LHR09');

create table trainsAndTrainSchedule(

train\_id nvarchar(40) primary key not null,

running\_cost money not null,

Train\_type nvarchar(40) not null,

Departure\_time time not null,

);

insert into trainsAndTrainSchedule(train\_id,running\_cost,Train\_type,Departure\_time)

values ('T01',50000,'Economy','04:00:00'),

('T02',40000,'Lower-AC','05:00:00'),

('T03',60000,'Parlour','03:00:00'),

('T04',80000,'Business-Class','07:00:00')

create table Routess(

Route\_id nvarchar(40) primary key not null,

train\_id nvarchar(40) not null,

Source\_Sid nvarchar(40) not null,

Destination\_Sid nvarchar(40) not null,

Route\_length varchar(40) not null,

Estimated\_time nvarchar(40) not null,

station\_id varchar(40) not null,

constraint fk\_trainsSchedule foreign key(train\_id)

references trainsAndTrainSchedule(train\_id),

constraint fk\_station01 foreign key(station\_id)

references station(station\_id),

);

insert into Routess(Route\_id,train\_id,Source\_Sid,Destination\_Sid,Route\_length,Estimated\_time,station\_id)

values ('RP01','T01','ISB02','LHR11','398 km','5 Hrs','RWP01'),

('SR01','T02','LHR11','SAR01','200 km','3 Hrs','SAR02'),

('ISB01','T03','FAIS09','ISB02','298 km','4 Hrs','ISB03'),

('FS01','T04','ISB02','FAIS09','200 km','2 Hrs','FAIS06')

create table Seats\_tickets(

Seat\_id nvarchar(40) primary key not null,

Departure\_time time not null,

train\_id nvarchar(40) not null,

ticket\_id nvarchar(40) not null,

constraint fk\_trainsSchedule1 foreign key (train\_id)

references trainsAndTrainSchedule(train\_id),

);

insert into Seats\_tickets(Seat\_id,Departure\_time,train\_id,ticket\_id)

values('S01','04:30:00','T01','ticket09'),

('S02','06:00:00','T02','ticket06'),

('S03','07:30:00','T03','ticket10'),

('S04','12:00:00','T04','ticket12')

select \* from Seats\_tickets

create table passenger(

p\_name nvarchar(40) not null,

p\_cnic bigint primary key not null,

p\_email nvarchar(40) not null,

);

insert into passenger(p\_name,p\_cnic,p\_email)

values('Usman',3520298348183,'usman664@gmail.com'),

('Fazeel',3520228126679,'fazeel08@gmail.com'),

('Arman',3520294563962,'arman01@yahoo.com'),

('Yousaf',3520246130637,'yousaf99@hotmail.com')

create table books(

p\_cnic bigint not null,

train\_id nvarchar(40) not null unique,

Seat\_id nvarchar(40) not null,

schedule DATETIME NOT NULL,

constraint fk\_p\_cnic foreign key (p\_cnic)

references passenger(p\_cnic),

constraint fk\_train\_id foreign key (train\_id)

references trainsAndTrainSchedule(train\_id),

constraint fk\_Seat\_id foreign key (Seat\_id)

references Seats\_tickets(Seat\_id),

primary key (train\_id, Seat\_id, schedule)

);

insert into books

values(3520298348183,'T01','S01','20120618 10:34:09 AM')

Select \* FROM books;