



Layout

Table Admin

* Pk	Adminid	INT
Unq	SSN	VARCHAR(20)
*	Firstname	VARCHAR(20)
*	Lastname	VARCHAR(20)
Unq	Phone	VARCHAR(30)
Unq	Email	VARCHAR(40)
*	Password	VARCHAR(40)
Indexes		
Pk	pk_admin	Adminid
Unq	unq_admin_ssn	SSN
Unq	unq_admin_phone	Phone
Unq	unq_admin_email	Email

Table AdminUpdateTrain

	Trainid	INT
	Adminid	INT
*	Updatedate	DATE
Foreign Keys		
	fk (Trainid) ref Train (Trainid)	
	fk (Adminid) ref Admin (Adminid)	

Table AdminUpdateTrip

	Tripid	INT
	Adminid	INT
*	Updatedate	DATE
Foreign Keys		
	fk (Adminid) ref Admin (Adminid)	

Table Booking

* Pk	Bookingid	INT
	customerid	INT
	Trainid	INT
	Tripid	INT
*	TotalNumberofseats	INT
	TotalPrice	NUMERIC(9,2)
Indexes		
Pk	pk_booking	Bookingid
Foreign Keys		
	fk (customerid) ref Customer (Customerid)	
	fk (Trainid) ref Train (Trainid)	
	fk (Tripid) ref Trip (Tripid)	

Table Booking_class

Unq	Bookingid	INT
Unq	class	INT
*	Numberofseats	INT

Table Booking_class

Indexes		
Unq	pk_booking_class	Bookingid, class
Foreign Keys		
	fk (Bookingid) ref Booking (Bookingid)	
Constraints		
	cns_booking_class_class	class between 1 and 3

Table Customer

* Pk	Customerid	INT
Unq	SSN	VARCHAR(20)
*	Firstname	VARCHAR(20)
*	Lastname	VARCHAR(20)
Unq	Phone	VARCHAR(30)
Unq	Email	VARCHAR(40)
*	Password	VARCHAR(40)
Indexes		
Pk	pk_customer	Customerid
Unq	uniq_customer_ssn	SSN
Unq	uniq_customer_phone	Phone
Unq	uniq_customer_email	Email

Table Ticket

Unq	Bookingid	INT
* Unq	Seatnumber	INT
	class	INT
*	Price	NUMERIC(6,2)
Indexes		
Unq	pk_ticket	Seatnumber, Bookingid
Foreign Keys		
	fk (Bookingid) ref Booking (Bookingid)	
Constraints		
	cns_ticket_class	class between 1 and 3

Table Train

* Pk	Trainid	INT
	Adminid	INT
*	TrainName	VARCHAR(30)
*	brand	VARCHAR(70)
*	capcity	INT
*	Avaliablecapacity	INT
Indexes		
Pk	pk_train	Trainid
Foreign Keys		
	fk (Adminid) ref Admin (Adminid)	

Table Trip

* Pk	Tripid	INT
*	Source	VARCHAR(50)

Table Trip		
*	Destination	VARCHAR(50)
*	Tripdate	DATE
*	Starttime	TIME
*	duration	INT
Indexes		
Pk	pk_trip	Tripid

Table Trip_price		
Unq	Tripid	INT
Unq	class	INT
*	Price	NUMERIC(6,2)
Indexes		
Unq	pk_trip_price	class, Tripid
Foreign Keys		
	fk (Tripid) ref Trip (Tripid)	
Constraints		
	cns_trip_price_class	class between 1 and 3