CS4350 Database Systems Quiz#6

Name: Loc Nguyen

Given FLIGHT = ( FlightN, FromCity, ToCity, Date, DepartureTime, ArrivalTime, MaxCapacity )  
 // You may use <, >, !=, or = between any two dates or between any two  
times. Also, you may assume the attribute Date = arrival date= departure date and that ToCity  
and FromCity are in the same time zone.  
W R I T E   A  S T A T E M E N T - L E V E L  and row-level  A F T E R

U P D A T E T R I G G E R   T H A T  
P R E V E N T S   T H E ArrivalTime T O  B E  B E F O R E DepartureTime

Statement Level

CREATE TRIGGER CheckTime

AFTER UPDATE ON FLIGHT

REFERENCING NEW TABLE AS NewFlight

OLD TABLE AS OldFlight

FOR EACH STATEMENT

WHEN (NewFlight.Arrival Time < NewFlight.ArrivalTime)

BEGIN

RAISERROR(‘ArrivalTime is before DepartureTime’)

ROLLBACK TRANSACTION

END;

Row Level

CREATE TRIGGER CheckTime

AFTER UPDATE ON FLIGHT

REFERENCING NEW ROW AS NewItinerary

OLD ROW AS OldItinerary

FOR EACH ROW

WHEN (NewItinerary.ArrivalTime < NewItinerary.DepartureTime)

SET NewItinerary.ArrivalTime = OldItinerary.ArrivalTime