Exercise - Triggers

Execute the following commands:

drop table reservations;
drop table flights;

CREATE TABLE flights(
fl_id int not null primary key,
from_city varchar(100),
to_city varchar(100),
fl_date date,
tot_seats number not null,
free_seats number
);

CREATE TABLE RESERVATIONS(
res_id int not null,
fl_id int not null primary key,
num_seats number, --number of seats booked
cust_name varchar(100),
foreign key (fl_id) references flights(fl_id)
);

EX1: Using triggers, make the fl_id and res_id auto increment

When EX1 has been completed, execute the following:

INSERT into flights values ('Rome','Paris',to_date('2012-02-02','yyyy-mm-dd'),300,300);
INSERT into flights values ('Dublin','Paris',to_date('2013-02-02','yyyy-mm-dd'),300,300);
INSERT into flights values ('Madrid','Moscow',to_date('2014-02-02','yyyy-mm-dd'),300,300);
INSERT into flights values ('NY','Dublin',to_date('2014-03-02','yyyy-mm-dd'),300,300);

EX2: Write a trigger for the table reservations that, when a booking is inserted, modified or delete, update the number of free seats. If there are not enough seats, an exception is raised