DELIMITER $$

create trigger seatnum\_before\_delete

before delete

on SeatNum

for each row

begin

delete from ticket where SeatsNum=OLD.sNum;

delete from seat where SeatsNumber=OLD.sNum;

end;$$

DELIMITER ;

DELIMITER $$

create trigger seatrow\_before\_delete

before delete

on SeatRow

for each row

begin

delete from Ticket where SeatsRow=OLD.sRow;

delete from Seat where SeatsRow=OLD.sRow;

end;$$

DELIMITER ;

DELIMITER $$

create trigger customer\_before\_delete

before delete

on Customer

for each row

begin

delete from Ticket where CustomersID=OLD.CustomerID;

end;$$

DELIMITER ;

DELIMITER $$

create trigger customer\_after\_update

after update

on Customer

for each row

begin

if NEW.CustomerID != OLD.CustomerID then

update Ticket set CustomersID=NEW.CustomerID where CustomersID=OLD.CustomerID;

end if;

end;$$

DELIMITER ;

create table Ticket\_Backup(

TicketNumber int not null auto\_increment,

CustomersID int not null,

SeatsRow char(2) not null,

SeatsNumber int not null,

ShowTime timestamp,

foreign key(CustomersID) references Customer(CustomerID),

foreign key(SeatsNumber) references SeatNum(sNum),

foreign key(SeatsRow) references SeatRow(sRow),

primary key(TicketNumber)

);

DELIMITER $$

create trigger ticket\_after\_insert

after insert

on Ticket

for each row

begin

insert into Ticket\_Backup values (NEW.TicketNumber, NEW.CustomersID, NEW.SeatsRow, NEW.SeatsNumber, NEW.ShowTime);

end;$$

DELIMITER ;

| Trigger Name | Event | Timing | Table | Description |
| --- | --- | --- | --- | --- |
| SeatNum\_Before\_Delete | Delete | Before | SeatNum | This trigger will remove values from tables using the assigned sNum attribute as a foreign key, for each deleted SeatNum. |
| SeatRow\_Before\_Delete | Delete | Before | SeatRow | This trigger will remove values from tables using the assigned sRow attribute as a foreign key, for each deleted SeatRow. |
| Customer\_Before\_Delete | Delete | Before | Customer | This trigger will remove Tickets that use the CustomerID as a foreign key, for each deleted Customer. |
| Customer\_After\_Update | Update | After | Customer | This trigger will update Tickets with the new CustomerID, for each updated Customer that has a new CustomerID. |
| Ticket\_After\_Insert | Insert | After | Ticket | This trigger will add the ticket information into the Ticket\_Backup table, for each inserted Ticket. |