Name: Adithya M SRN: PES1UG20CS621 Section: K Week 9

1) DELIMITER \$\$ CREATE TRIGGER trigger1 BEFORE INSERT ON compartment FOR EACH ROW BEGIN IF (SELECT COUNT(*) FROM compartment WHERE Train_Number = NEW.Train_Number) >= 4 THEN SIGNAL SQLSTATE '50001' SET MESSAGE_TEXT = 'Max number of compartments reached'; END IF; END; \$\$ DELIMITER;

INSERT INTO compartment VALUES("F01","Class I",12,8,58450);

compartment_no	compartment_type	capacity	availability	train_number
 F01	I Class	16	Θ	25260
F01	I Class	16	0	25261
F01	I Class	16	4	58450
F01	I Class	16	5	58451
F01	I Class	16	15	62620
F01	I Class	16	6	62621
F02	I Class	16	0	62620
G01	III Class	60	33	25261
G01	III Class	60	2	58450
G01	III Class	60	40	58451
G01	III Class	60	10	62621
G02	III Class	60	45	25261
G02	III Class	60	12	62621
S01	II Class	30	15	25260
S01	II Class	30	15	25261
S01	II Class	30	5	58450
S01	II Class	30	4	62621
S02	II Class	30	17	25260
S02	II Class	30	3	58450
S02	II Class	30	6	62621

MariaDB [cs621_railway]> INSERT INTO compartment VALUES("F01","Class I",12,8,58450); ERROR 1644 (50001): Max number of compartments reached

2) create table Back_Up(pnr varchar(10),train_number int, travel_date date,departure varchar(30),arrival varchar(30),departure_time time,arrival_time time, user_id varchar(20),train_type varchar(20), compartment_type varchar(10),compartment_no varchar(10),seat_no varchar(10),name varchar(30),age int(11), transaction_id int,bank varchar(20),card_no varchar(20),price int);

ALTER TABLE Ticket_Passenger ADD CONSTRAINT dt FOREIGN KEY (pnr) REFERENCES Ticket(pnr) on delete cascade;

ALTER TABLE Payment_info ADD CONSTRAINT dp FOREIGN KEY (pnr) REFERENCES Ticket(pnr) on delete cascade;

DELIMITER \$\$

CREATE TRIGGER del_ticket

BEFORE DELETE

ON Ticket FOR EACH ROW

BEGIN

INSERT INTO Back_Up (SELECT * FROM (Ticket NATURAL JOIN(Ticket_Passenger NATURAL JOIN Payment_info)) WHERE pnr=old.pnr);

END; \$\$

DELIMITER;

delete from Ticket where pnr="PNR005";

SELECT * FROM Back_Up;