DBMS LAB Week-9

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Section: C

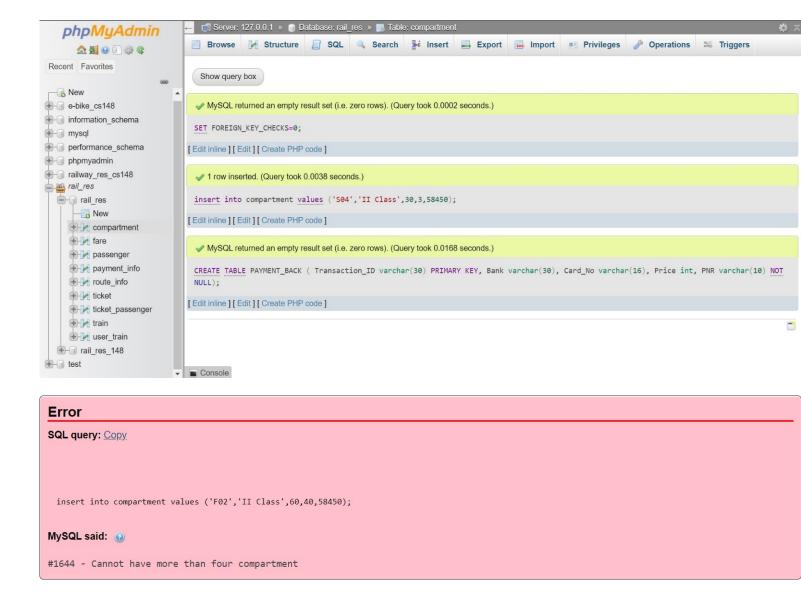
Date: 18/11/2022

1. Write a trigger on insert to the 'compartment' table when a new compartment gets added to a train and make sure that total number of compartments available in the train does not exceed 4

Code for the trigger:

```
DELIMITER $$
CREATE TRIGGER compartment_check
BEFORE INSERT
ON compartment FOR EACH ROW
BEGIN
    DECLARE error_msg VARCHAR(255);
    declare count int;
    SET error_msg = ('Cannot have more than four compartment');
    IF (select count(*) from compartment where Train_No = new.Train_No) > 4 THEN
    SIGNAL SQLSTATE '45000'
    SET MESSAGE_TEXT = error_msg;
    END IF;
END $$
DELIMITER;
```

Output:



2. Create a trigger to add payment information to the backup table when we try to delete information from the 'ticket' table.

Code for the trigger:

```
CREATE TABLE PAYMENT_BACK ( Transaction_ID varchar(30) PRIMARY KEY,
                            Bank varchar(30),
                            Card_No varchar(16),
                            Price int,
                            PNR varchar(10) NOT NULL);
DELIMITER $$
CREATE TRIGGER PAYMENT_BACKUP
BEFORE DELETE
ON ticket FOR EACH ROW
BEGIN
   Insert into payment_back select * from payment_info where PNR = old.PNR;
   delete from payment_info where PNR = old.PNR;
   delete from ticket_passenger where PNR = old.PNR;
END $$
DELIMITER;
DELETE FROM ticket WHERE PNR = 'PNR004';
SELECT * FROM rail_res.payment_back;
```

Output:

