UE20CS301

Database Management System

Lab 9 – Creating Triggers

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Question 1

```
lariaDB [railway_system]> DELIMITER $$
lariaDB [railway_system]> CREATE TRIGGER max4compartments
   -> BEFORE insert
   -> ON compartment_331 for each ROW
   -> BEGIN
   -> DECLARE error_msg VARCHAR(255);
   -> declare x int;
   -> SET error_msg = ('Cannot have more than four compartment');
   -> IF (select count(*) from compartment_331 where Train_No = new.Train_No) >= 4 THEN -> SIGNAL SQLSTATE '45000'
   -> SET MESSAGE_TEXT = error_msg;
   -> END IF;
   -> END $$
uery OK, 0 rows affected (0.010 sec)
lariaDB [railway_system]> DELIMITER;
lariaDB [railway_system]> insert into compartment_331 values (58450,'S Class',30,3, 'S13');
RROR 1644 (45000): Cannot have more than four compartment
MariaDB [railway_system]> insert into compartment_331 values (62620,'S Class',30,3, 'S13');
Query OK, 1 row affected (0.005 sec)
```

Question 2

```
MariaDB [railway_system]> CREATE TABLE PAYMENT_BACKUP_331 ( Transaction_ID varchar(30) PRIMARY KEY, Bank varchar(30),
Card_No varchar(16), Price int, PNR varchar(10) NOT NULL);
Query OK, 0 rows affected (0.022 sec)
MariaDB [railway_system]>
MariaDB [railway_system]> DELIMITER $$
MariaDB [railway_system]> CREATE TRIGGER paymentBackup
     -> BEFORE DELETE
     -> ON ticket_331 FOR EACH ROW
    -> BEGIN
           Insert into PAYMENT_BACKUP_331 select * from payment_info_331 where PNR = old.PNR;
delete from payment_info_331 where PNR = old.PNR;
            delete from passenger_331 where PNR = old.PNR;
    -> END $$
Query OK, 0 rows affected (0.008 sec)
MariaDB [railway_system]> DELIMITER ;
MariaDB [railway_system]> delete from ticket_331 where PNR = 'PNR015';
Query OK, 1 row affected (0.014 sec)
MariaDB [railway_system]> select * from payment_backup_331;
  Transaction_ID | Bank
                                     Card_No
                     | UNION BANK | 2.43266E+15 | NULL | PNR015 |
  row in set (0.000 sec)
```