DBMS Assignment Lab 9

Tarun M

PES1UG20CS462

1)

```
DELIMITER $$
CREATE TRIGGER max_4_cmpts
BEFORE INSERT
ON compartment FOR EACH ROW
BEGIN
DECLARE err_msg VARCHAR(255);
SET err_msg = ('More than 4 compartments are not available');
IF NEW.availability > 4 THEN
SIGNAL SQLSTATE '45000'
SET MESSAGE_TEXT = err_msg;
END IF;
END $$
DELIMITER ;
```

```
mysql> use pes1ug20cs462;
Database changed
mysql> DELIMITER $$
mysql> CREATE TRIGGER max_4_cmpts
    -> BEFORE INSERT
    -> ON compartment FOR EACH ROW
    -> BEGIN
    -> DECLARE err_msg VARCHAR(255);
    -> SET err_msg = ('More than 4 compartments are not available');
    -> IF NEW.availability > 4 THEN
    -> SIGNAL SQLSTATE '45000'
    -> SET MESSAGE_TEXT = err_msg;
    -> END IF;
    -> END $$
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;
mysql> INSERT INTO compartment VALUES ('S04', 'I Class', 80, 20, 58450);
ERROR 1644 (45000): More than 4 compartments are not available
mysql>
```

2)

CREATE TABLE backup_transactions(transaction_id INT PRIMARY KEY, bank VARCHAR(20), card_no BIGINT, price DECIMAL(10, 2), pnr VARCHAR(10));

DELIMITER $$
CREATE TRIGGER backup_transact
BEFORE DELETE
ON ticket FOR EACH ROW
BEGIN
INSERT into backup_transactions SELECT * FROM payment_info WHERE pnr = OLD.pnr;
DELETE FROM payment_info WHERE pnr = OLD.pnr;
DELETE FROM ticket_passenger WHERE pnr = OLD.pnr;
END;
$$
DELIMITER ;

```
mysql> CREATE TABLE backup_transactions(transaction_id INT PRIMARY KEY, bank VARCHAR(20), card_no BIGINT
, price DECIMAL(10, 2), pnr VARCHAR(10));
Query OK, 0 rows affected (0.05 sec)

mysql> DELIMITER $$
mysql> CREATE TRIGGER backup_transact
    -> BEFORE DELETE
    -> ON ticket FOR EACH ROW
    -> BEGIN
    -> INSERT into backup_transactions SELECT * FROM payment_info WHERE pnr = OLD.pnr;
    -> DELETE FROM payment_info WHERE pnr = OLD.pnr;
    -> DELETE FROM ticket_passenger WHERE pnr = OLD.pnr;
    -> END;
    -> $$
Query OK, 0 rows affected (0.01 sec)

mysql> DELIMITER ;
mysql> DELETE FROM ticket WHERE pnr = 'PNR001';
Query OK, 1 row affected (0.02 sec)

mysql> select * from backup_transactions;
+----------------+------+------------------+---------+--------+
| transaction_id | bank | card_no          | price   | pnr    |
+----------------+------+------------------+---------+--------+
|         342344 | IOB  | 5623570000000000 | 2172.00 | PNR001 |
+----------------+------+------------------+---------+--------+
1 row in set (0.00 sec)
```