

# Lab-9 Triggers:

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## Details :

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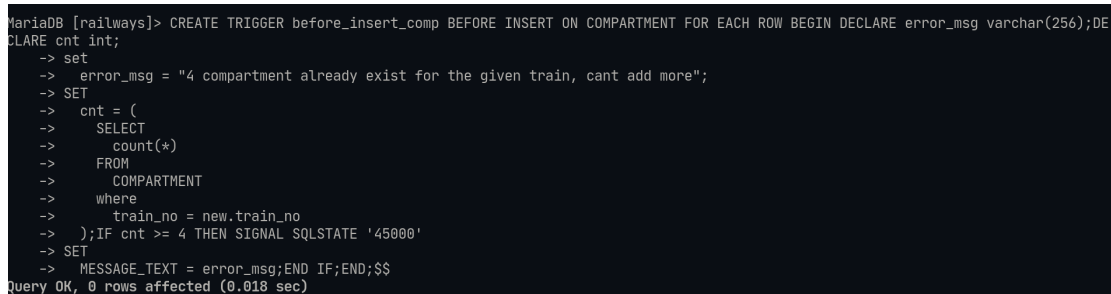
## Question 1 :

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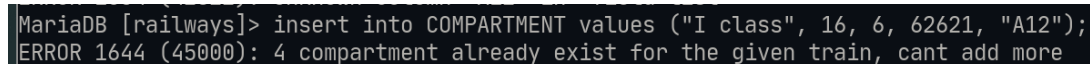
Commands :

```
CREATE TRIGGER before_insert_comp BEFORE INSERT ON COMPARTMENT FOR
EACH ROW BEGIN DECLARE error_msg varchar(256);DECLARE cnt int;
set
    error_msg = "4 compartment already exist for the given train,
cant add more";
SET
cnt = (
    SELECT
        count(*)
    FROM
        COMPARTMENT
    where
        train_no = new.train_no
);IF cnt >= 4 THEN SIGNAL SQLSTATE '45000'
SET
    MESSAGE_TEXT = error_msg;END IF;END;$$
insert into COMPARTMENT values ("I class", 16, 6, 62621, "A12");
```

Screenshots :



```
MariaDB [railways]> CREATE TRIGGER before_insert_comp BEFORE INSERT ON COMPARTMENT FOR EACH ROW BEGIN DECLARE error_msg varchar(256);DE
CLARE cnt int;
-> set
-> error_msg = "4 compartment already exist for the given train, cant add more";
-> SET
-> cnt = (
-> SELECT
-> count(*)
-> FROM
-> COMPARTMENT
-> where
-> train_no = new.train_no
-> );IF cnt >= 4 THEN SIGNAL SQLSTATE '45000'
-> SET
-> MESSAGE_TEXT = error_msg;END IF;END;$$
Query OK, 0 rows affected (0.018 sec)
```



```
MariaDB [railways]> insert into COMPARTMENT values ("I class", 16, 6, 62621, "A12");
ERROR 1644 (45000): 4 compartment already exist for the given train, cant add more
```

## Question 2 :

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Command :

```
CREATE TRIGGER after_delete_ticket BEFORE DELETE ON PAYMENT_INFO FOR  
EACH ROW BEGIN  
INSERT INTO  
    BACKUP_PAYMENTS  
SELECT  
    *  
FROM  
    PAYMENT_INFO  
WHERE  
    pnr = old.pnr;END;$$
```

Screenshots :

```
MariaDB [railways]> DELIMITER $$  
MariaDB [railways]> CREATE TRIGGER after_delete_ticket BEFORE DELETE ON PAYMENT_INFO FOR EACH ROW BEGIN  
-> INSERT INTO  
->     BACKUP_PAYMENTS  
-> SELECT  
->     *  
-> FROM  
->     PAYMENT_INFO  
-> WHERE  
->     pnr = old.pnr;END;$$  
Query OK, 0 rows affected (0.017 sec)  
  
MariaDB [railways]> DELETE FROM PAYMENT_INFO WHERE pnr="PNR012";$$
```