**DBMS - UE20CS301 Lab**

**Lab 9**

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**Sec**: F

**SRN**: PES2UG20CS389

1.

**Trigger Query:**

DELIMITER $$

CREATE TRIGGER before\_delete\_ticket

BEFORE DELETE

ON ticket FOR EACH ROW

BEGIN

DECLARE err\_msg varchar(200);

SET err\_msg = ("cannot insert!! pnr not in paymentinfo");

CREATE TABLE IF NOT EXISTS backup (Transaction\_id int NOT NULL, Bank varchar(20), Card\_no varchar(255), Price float, PNR varchar(255));

IF old.PNR IN paymentinfo.PNR THEN

INSERT INTO backup VALUES (SELECT \* FROM paymentinfo WHERE paymentinfo.PNR = old.PNR);

ELSE

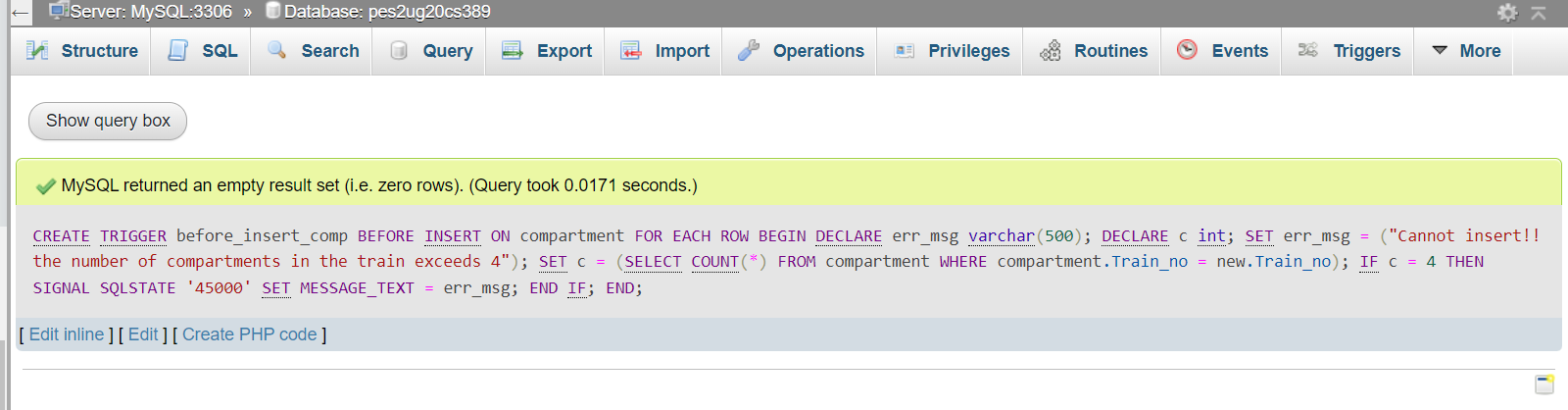
SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = err\_msg;

END IF;

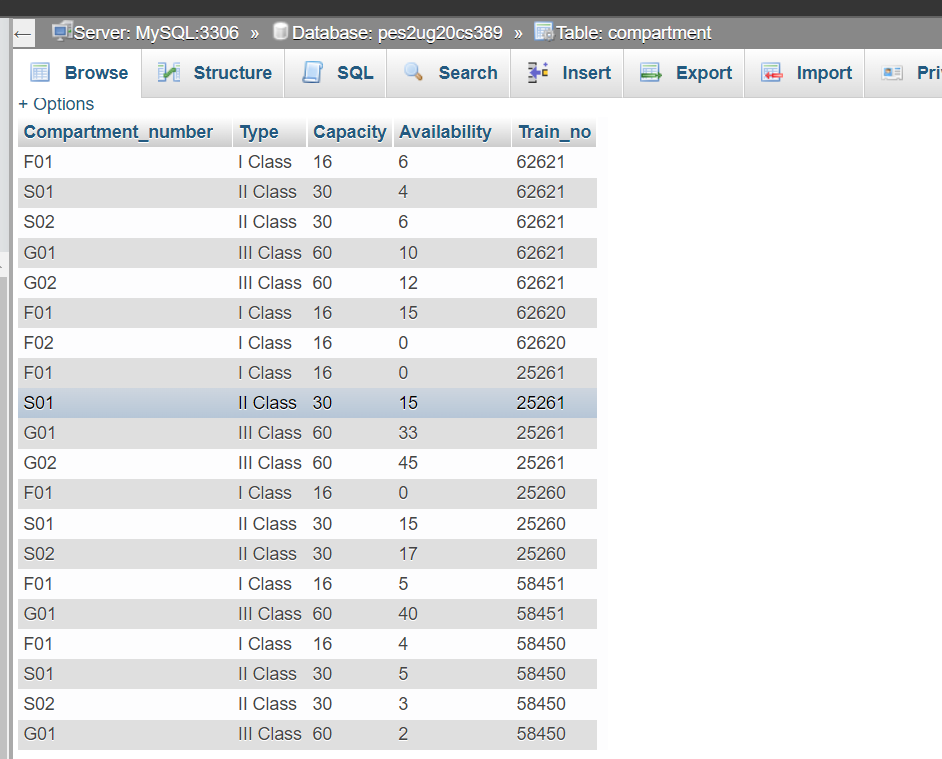
END $$

DELIMITER ;



**Original table values:**

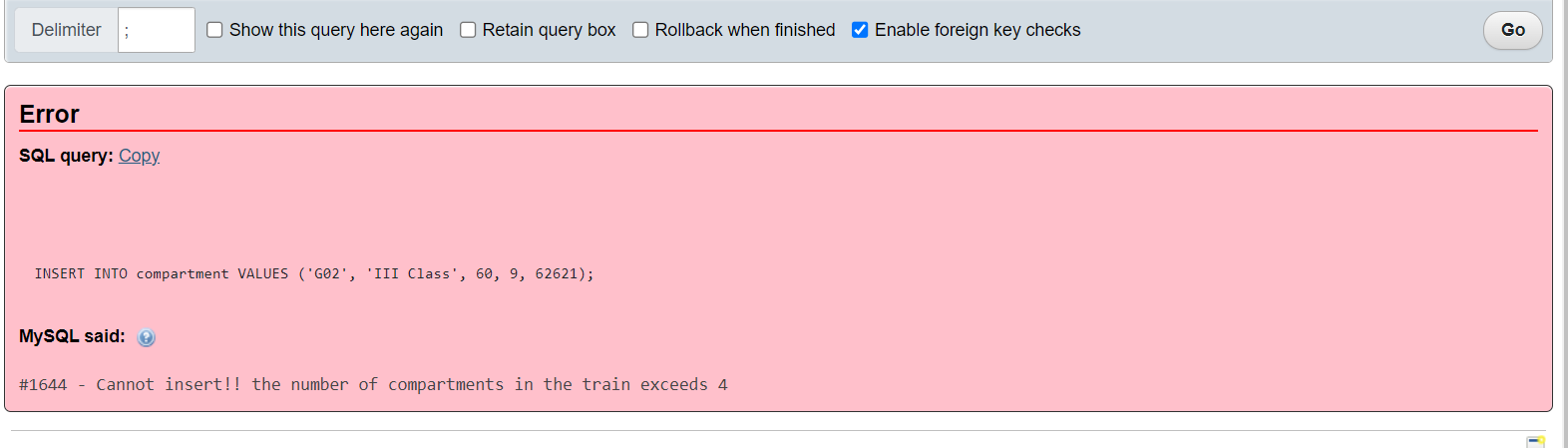
Compartment table:



**Insert query:**

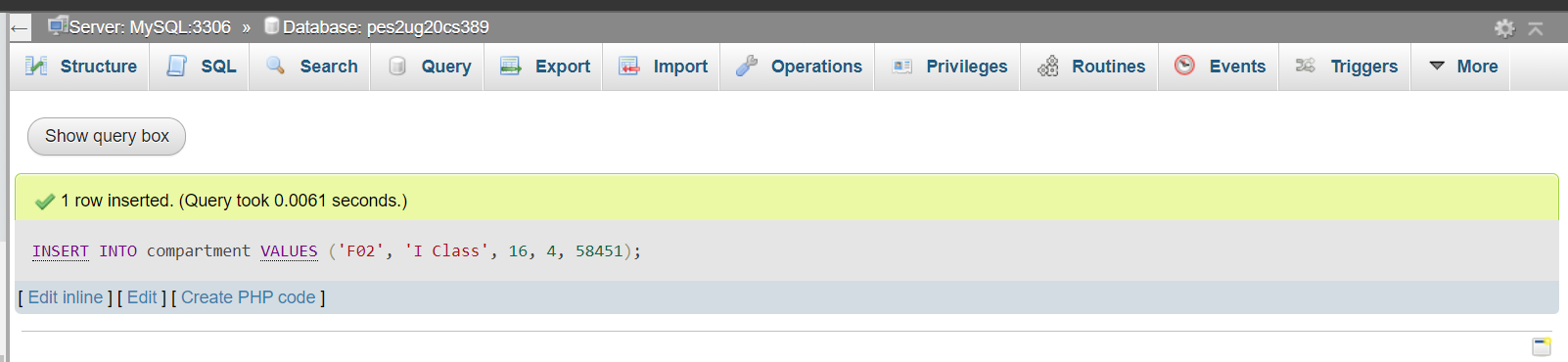
**a. Negative test case:**

INSERT INTO compartment VALUES ('G02', 'III Class', 60, 9, 62621);

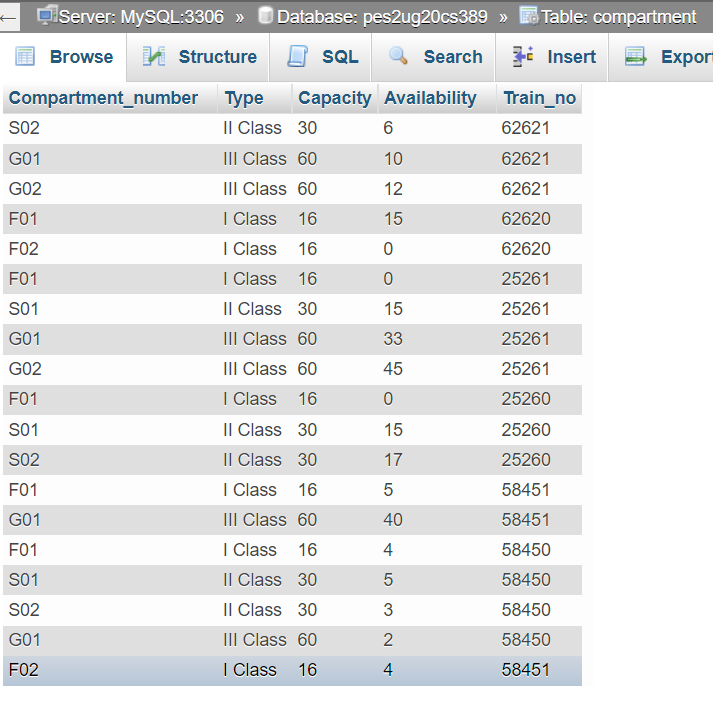


**b. Positive test case:**

INSERT INTO compartment VALUES ('F02', 'I Class', 16, 4, 58451);



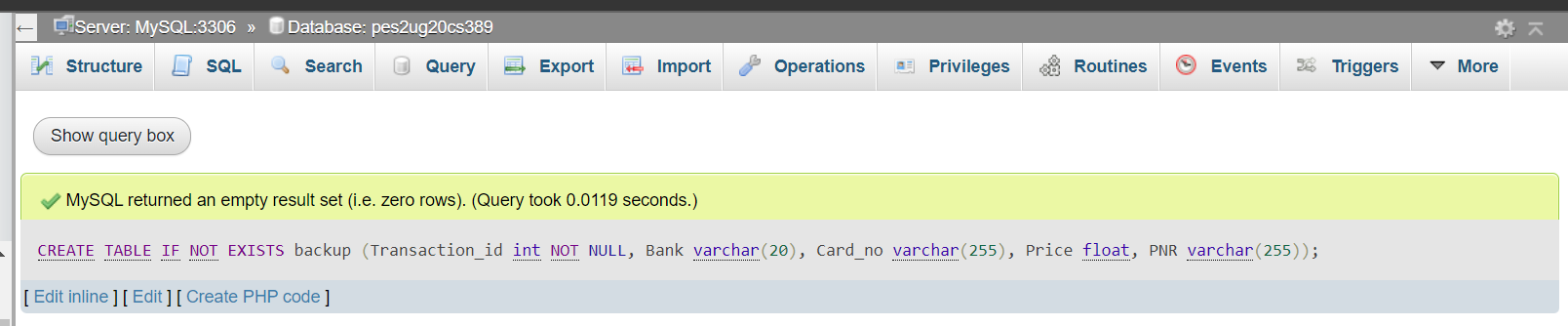
**Modified table after insert:**



2.

**Create backup table query:**

CREATE TABLE IF NOT EXISTS backup (Transaction\_id int NOT NULL, Bank varchar(20), Card\_no varchar(255), Price float, PNR varchar(255));



**Trigger query:**

DELIMITER $$

CREATE TRIGGER before\_delete\_ticket

BEFORE DELETE

ON ticket FOR EACH ROW

BEGIN

DECLARE err\_msg varchar(200);

SET err\_msg = ("cannot insert!! pnr not in paymentinfo");

IF old.PNR IN (SELECT PNR FROM paymentinfo WHERE paymentinfo.PNR = old.PNR) THEN

INSERT INTO backup (SELECT \* FROM paymentinfo WHERE paymentinfo.PNR = old.PNR);

ELSE

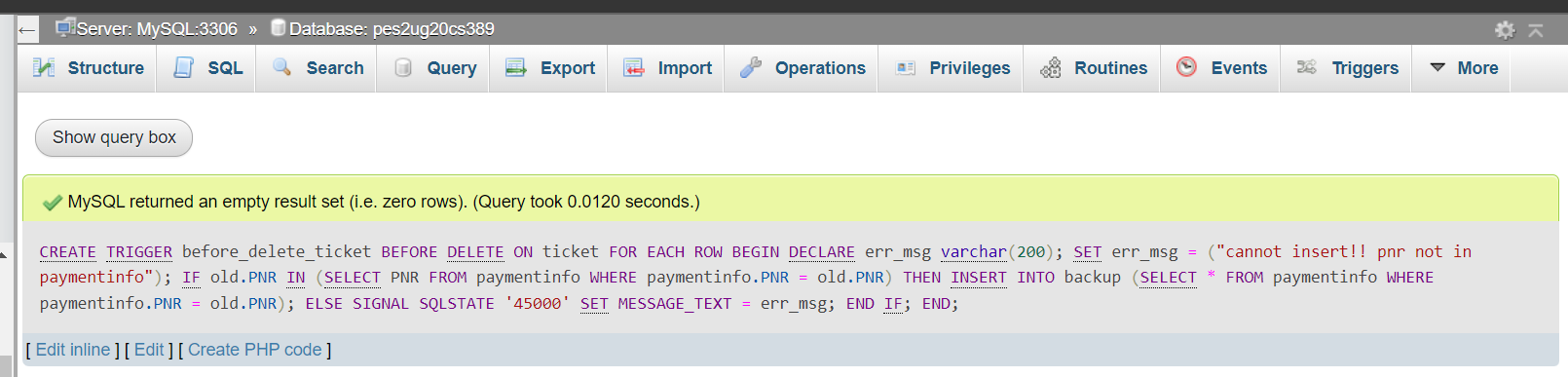
SIGNAL SQLSTATE '45000'

SET MESSAGE\_TEXT = err\_msg;

END IF;

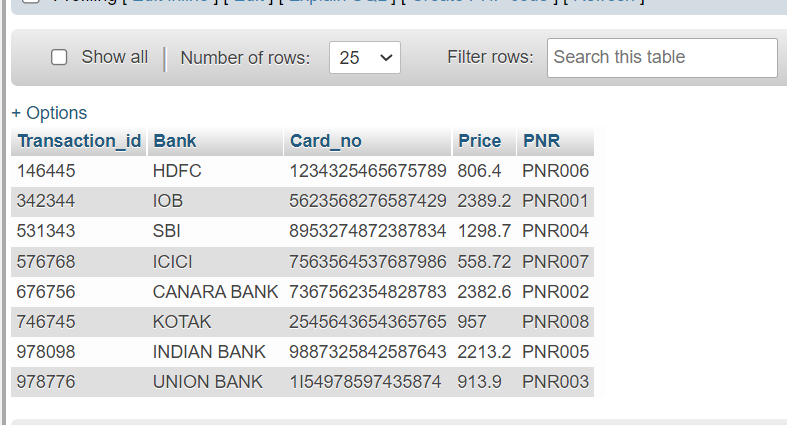
END $$

DELIMITER ;

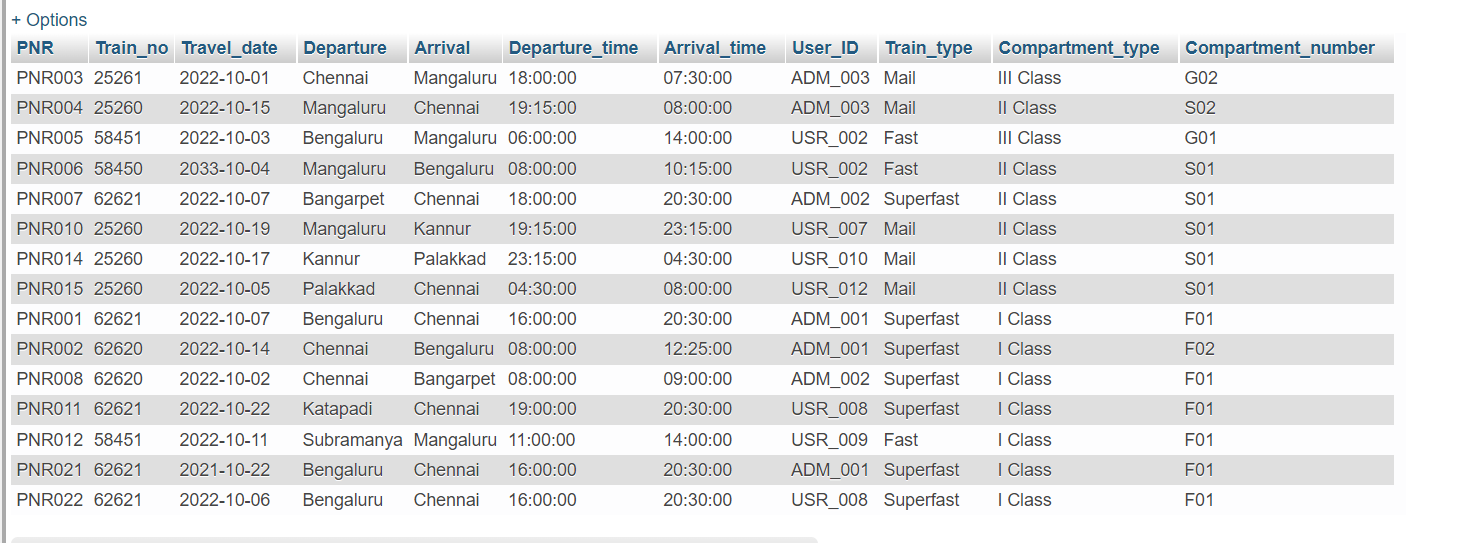


**Original table values:**

Paymentinfo table:



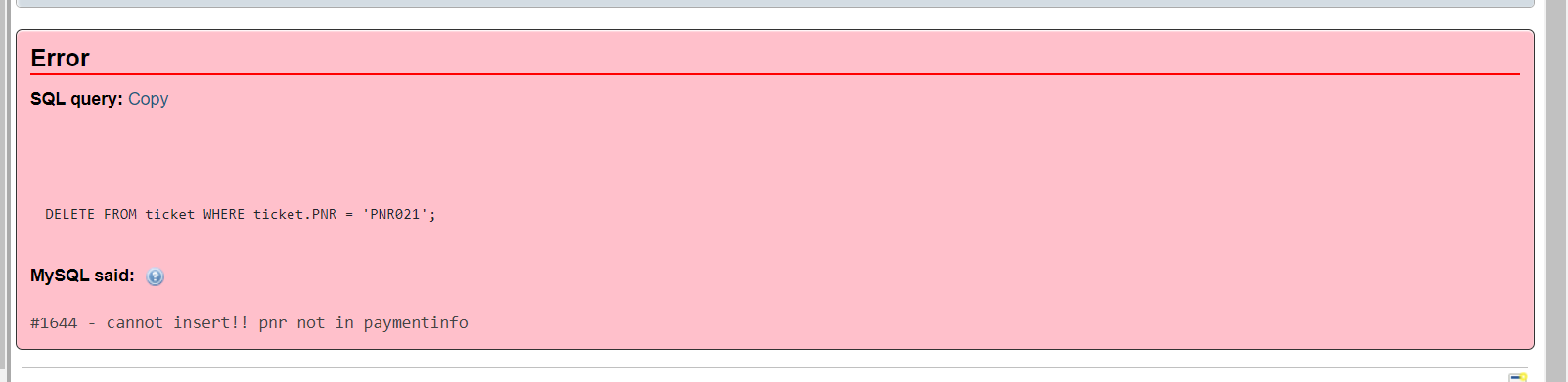
Ticket table:



**Delete query:**

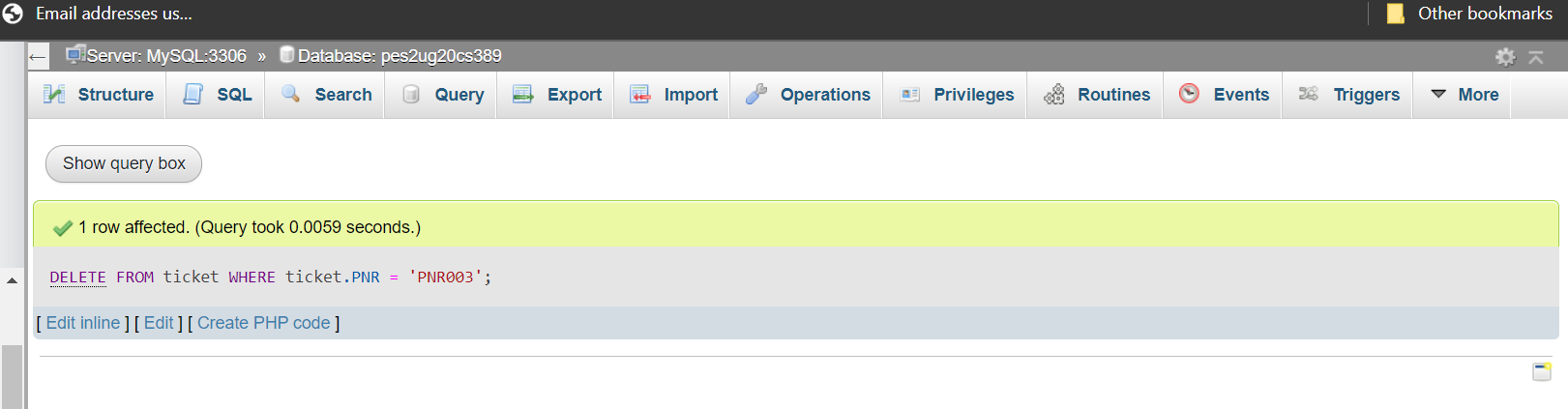
**a. Negative test case:**

DELETE FROM ticket WHERE ticket.PNR = ‘PNR021’;



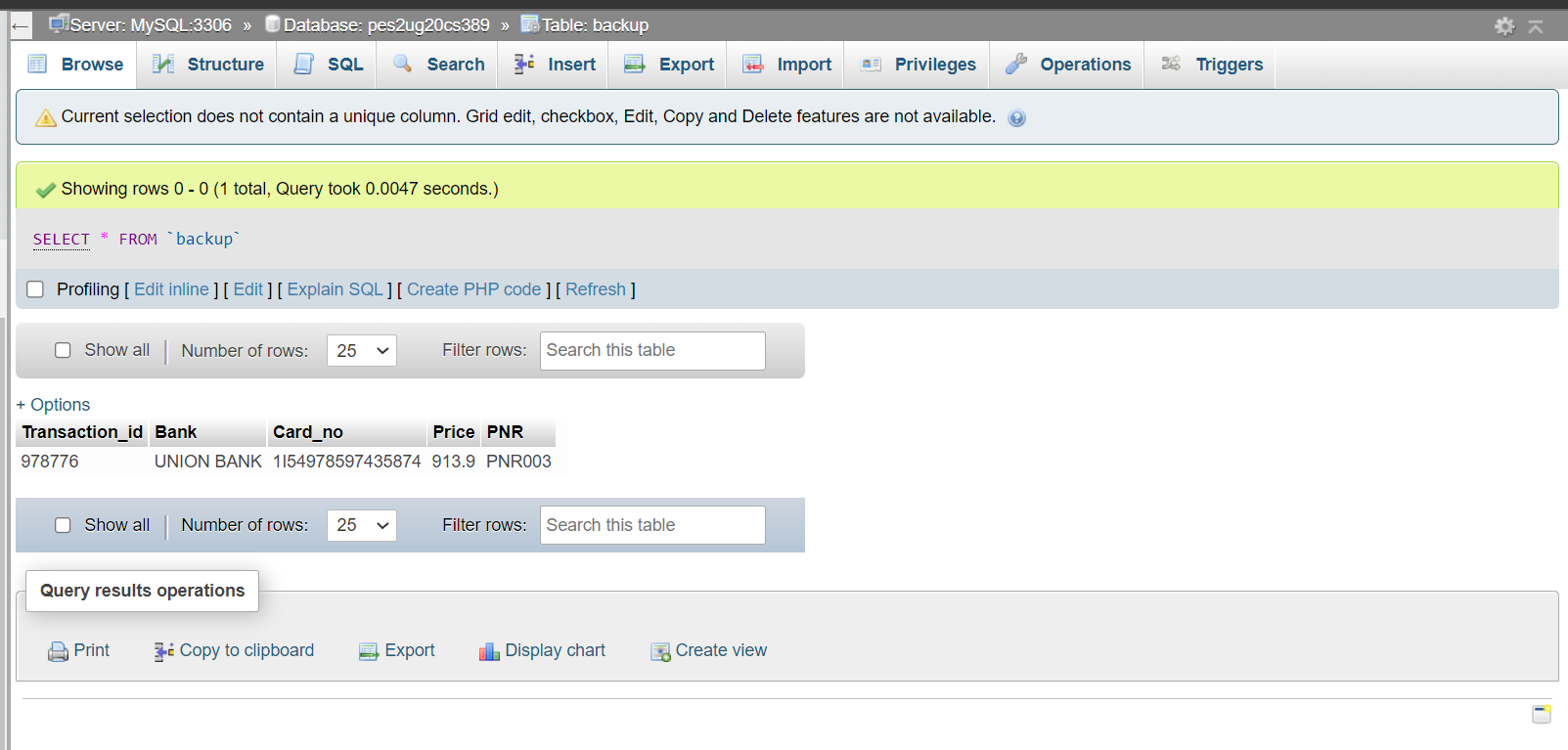
**b. Positive test case:**

DELETE FROM ticket WHERE ticket.PNR = ‘PNR003’;



**Modified table values after delete:**

Backup table:



Ticket table:

