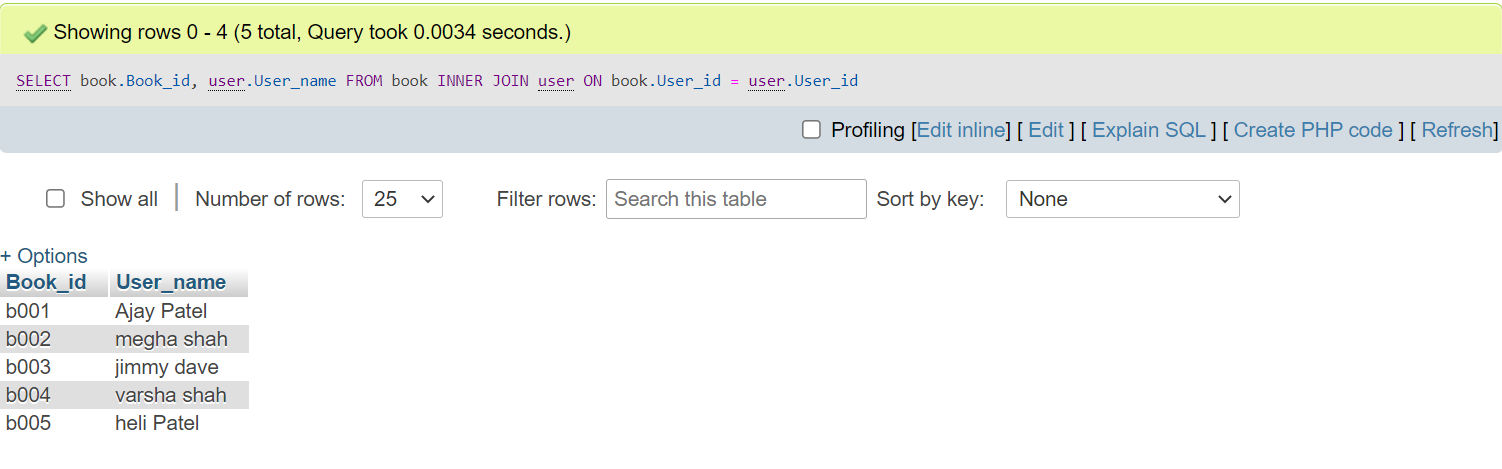
**Join queries**

**Inner join:**

SELECT book.Book\_id, user.User\_name

FROM book

INNER JOIN user ON book.User\_id = user.User\_id;

****

**Outer Join:**

**-->It is further divided into Three types:-**

**1)Left Join**

**2)Right Join**

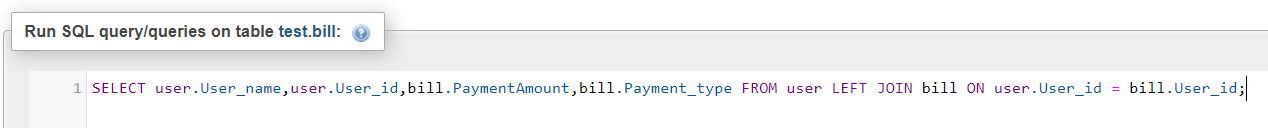
**3)FULL OUTER JOIN**

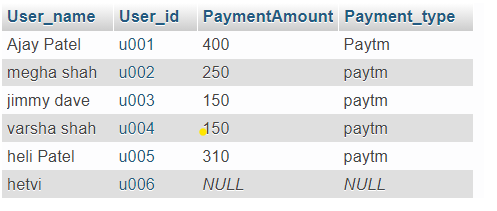
1. **Left Join**

SELECT user.User\_name,user.User\_id,bill.PaymentAmount,bill.Payment\_type

FROM user

LEFT JOIN bill ON user.User\_id = bill.User\_id;

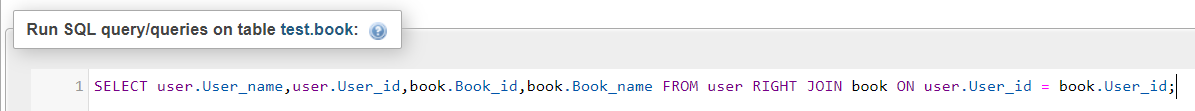
****

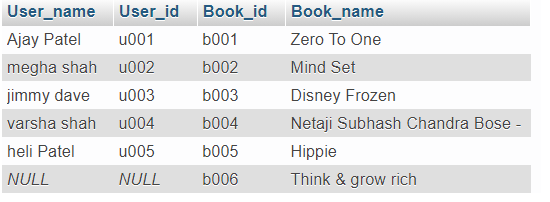
****

**2) Right Join**

SELECT user.User\_name,user.User\_id,book.Book\_id,book.Book\_name

FROM user RIGHT JOIN book ON user.User\_id = book.User\_id;

****

****

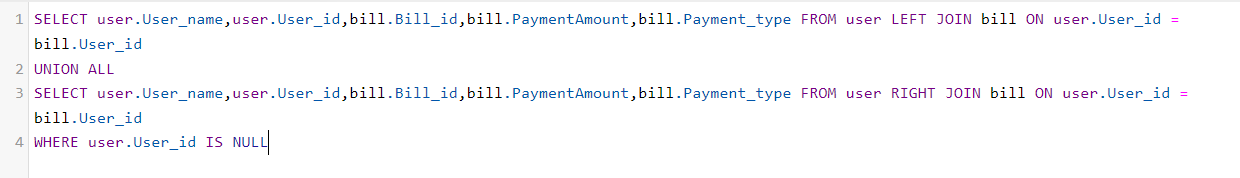
**3) FULL OUTER JOIN**

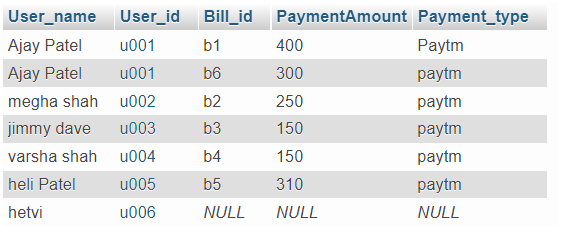
SELECT user.User\_name,user.User\_id,bill.Bill\_id,bill.PaymentAmount,bill.Payment\_type FROM user LEFT JOIN bill ON user.User\_id = bill.User\_id

UNION ALL

SELECT user.User\_name,user.User\_id,bill.Bill\_id,bill.PaymentAmount,bill.Payment\_type FROM user RIGHT JOIN bill ON user.User\_id = bill.User\_id

WHERE user.User\_id IS NULL

****

****

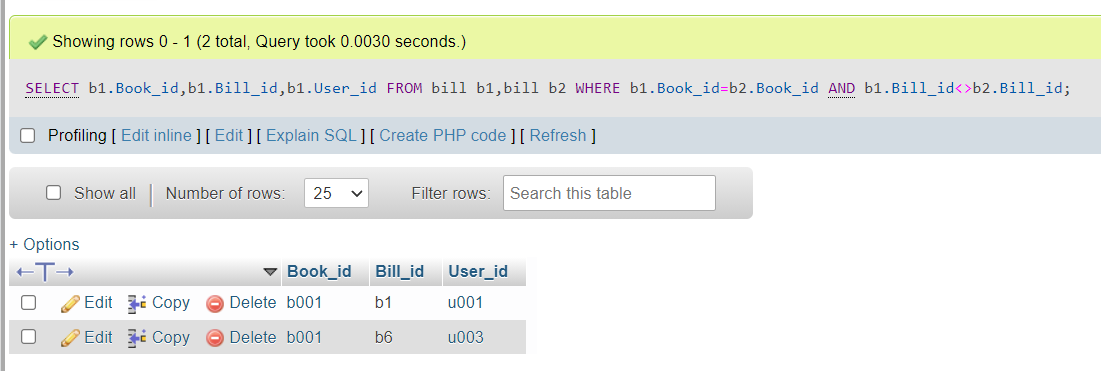
**Self join:**

SELECT b1.Book\_id,b1.Bill\_id,b1.User\_id

FROM bill b1,bill b2

WHERE b1.Book\_id=b2.Book\_id

AND b1.Bill\_id<>b2.Bill\_id;



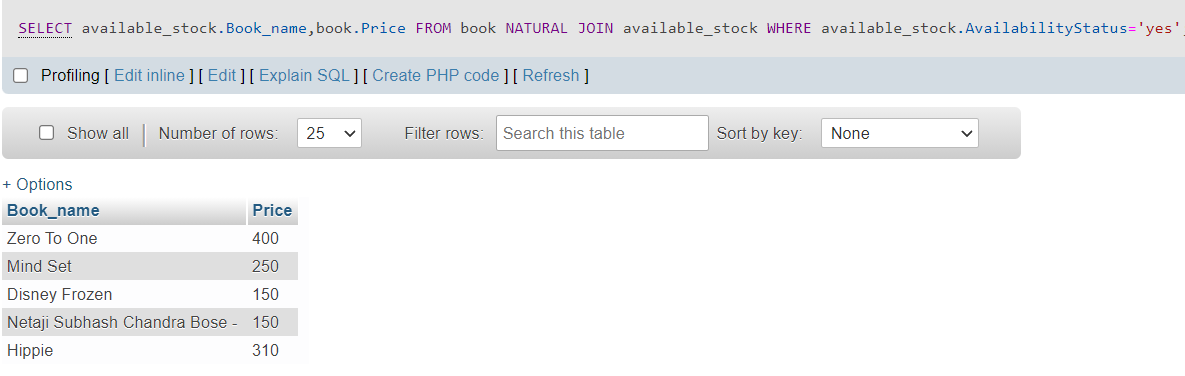
**Natural Join:**

SELECT available\_stock.Book\_name,book.Price

FROM book

NATURAL JOIN available\_stock

WHERE available\_stock.AvailabilityStatus='yes';

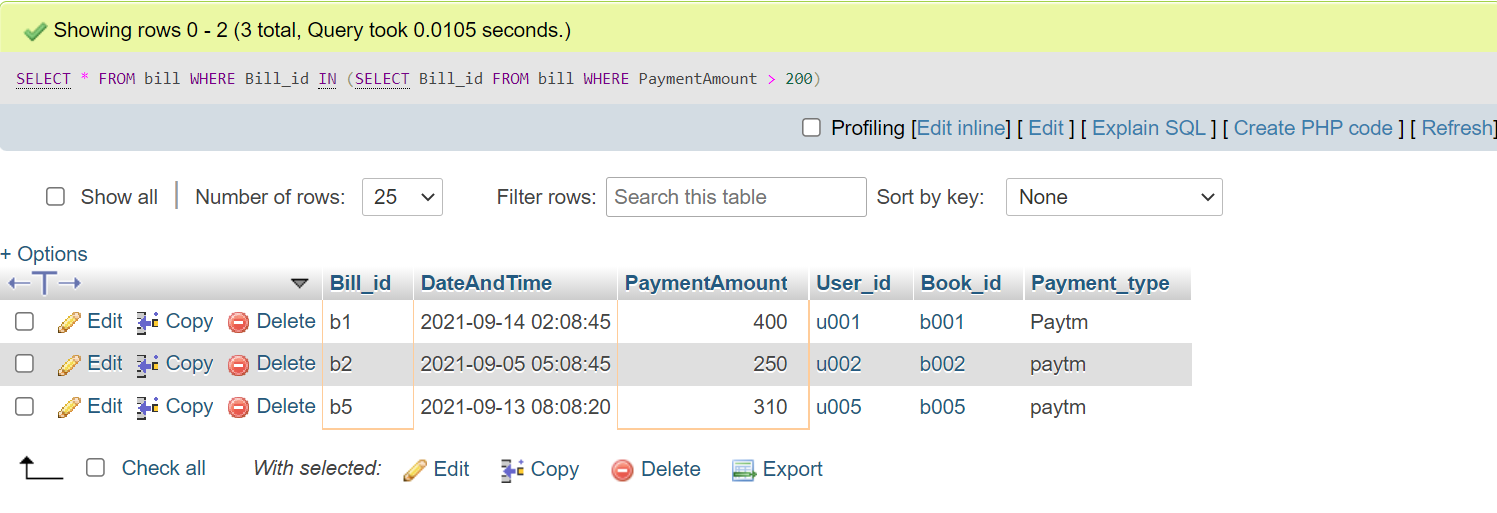


**SUB QUERIES**

**1**. SELECT \* FROM bill WHERE Bill\_id IN

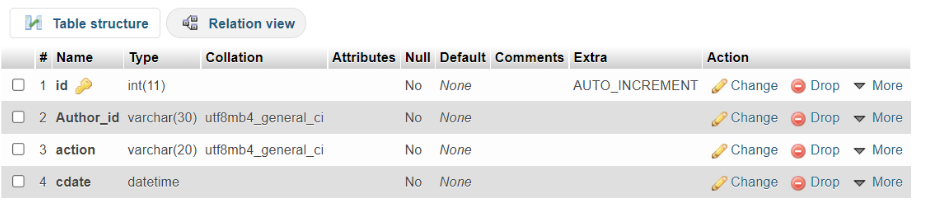
(SELECT Bill\_id FROM bill

WHERE PaymentAmount > 200) ;



Triggers:--

→ create table logs



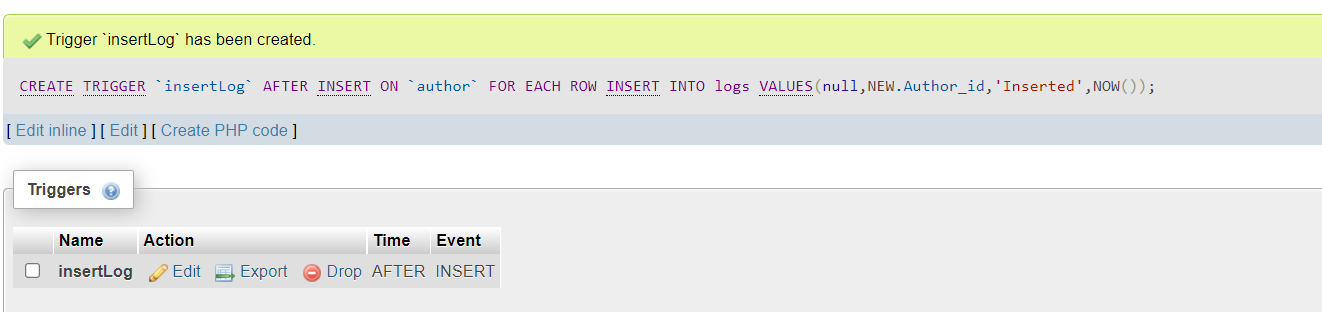
→ CREATE TRIGGER ‘insertLog’

AFTER INSERT

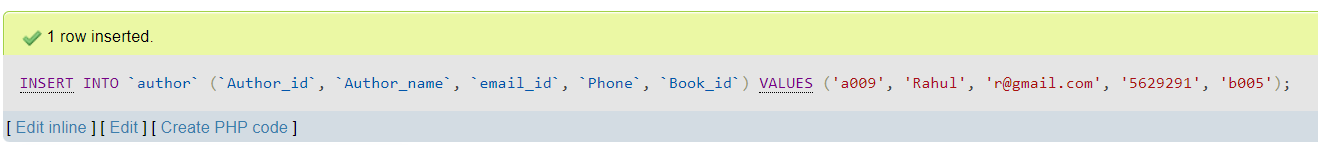
ON `author`

FOR EACH ROW INSERT INTO logs

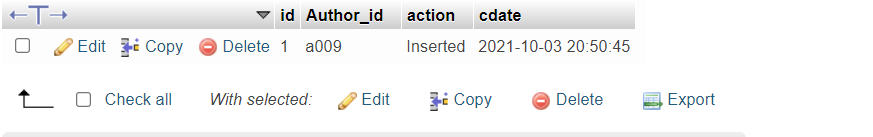
VALUES(null,NEW.Author\_id,’Inserted’,NOW());



→Now, 1 row added in author table



→ ss of logs table

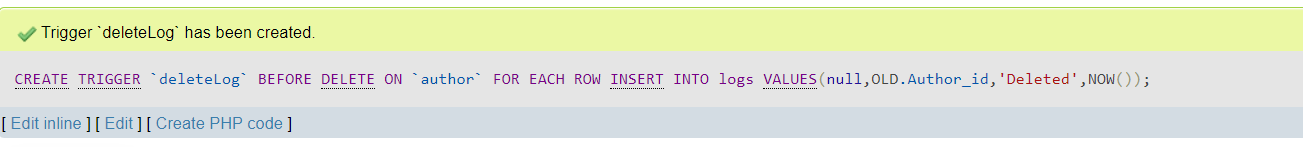


→ CREATE TRIGGER ‘deleteLog’

BEFORE DELETE ON `author`

FOR EACH ROW INSERT INTO logs

VALUES(null,OLD.Author\_id,’Deleted’,NOW());



→ now, we have deleted 1 row from author table

→ ss of final logs table

