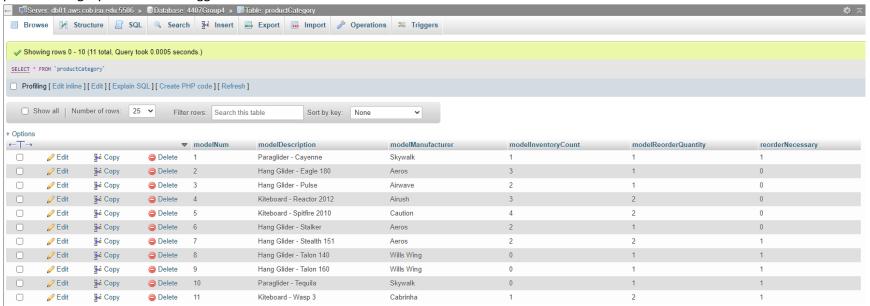
Trigger #1

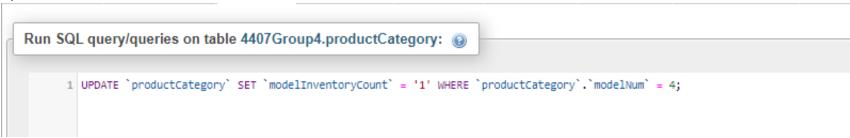
CREATE TRIGGER `trigger1` BEFORE UPDATE ON `productCategory`
FOR EACH ROW BEGIN

IF NEW.modelInventoryCount <= OLD.modelReorderQuantity THEN
SET NEW.reorderNecessary = 1;
ELSE SET NEW.reorderNecessary = 0;
IF NEW.modelReorderQuantity > OLD.modelInventoryCount THEN
SET NEW.reorderNecessary = 1;
ELSE SET NEW.reorderNecessary = 0;
END IF;
END IF;
END

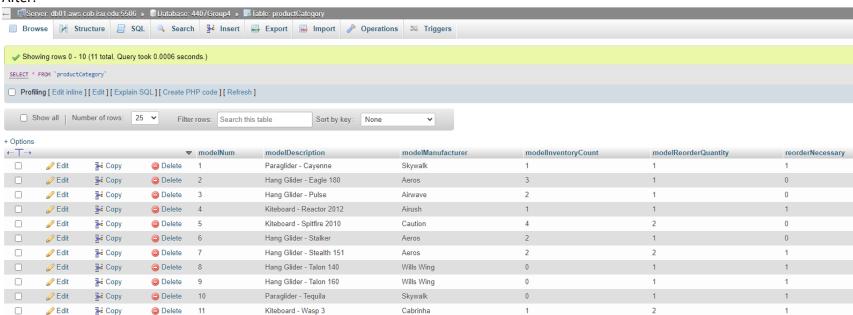
productCategory table before trigger event:



Update:



After:



Trigger #2 INSERT

CREATE TRIGGER 'InsertTheCard' BEFORE INSERT ON 'transaction'

FOR EACH ROW BEGIN

IF NEW.salesAgreementPaymentType = 'Credit Card' THEN

SET @a= ValidateCreditCard(NEW.salesAgreementCardNumberUsed);

IF @a= 'Not Valid!' THEN

SIGNAL SQLSTATE '45000' SET MESSAGE TEXT = 'Error: The credit Card number is not valid';

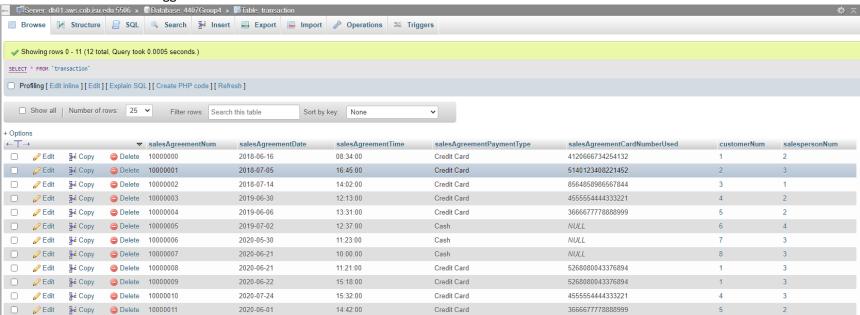
-- https://dev.mysql.com/doc/refman/8.0/en/signal.html

END IF;

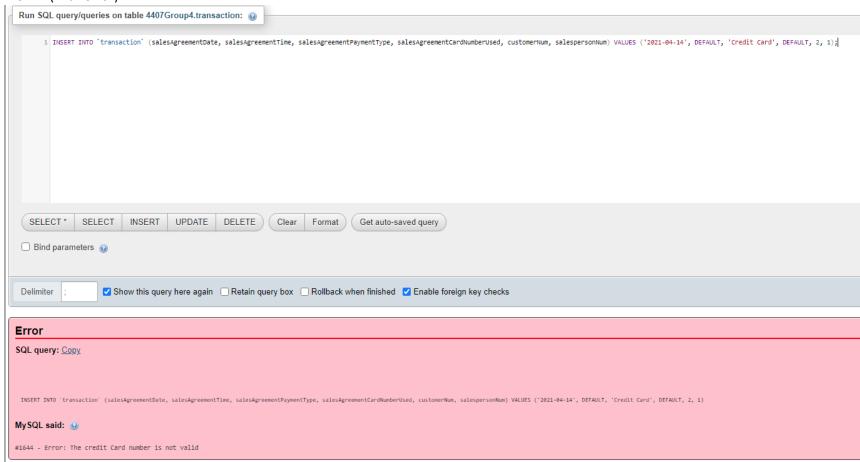
END IF;

END

Transaction table before triggers:

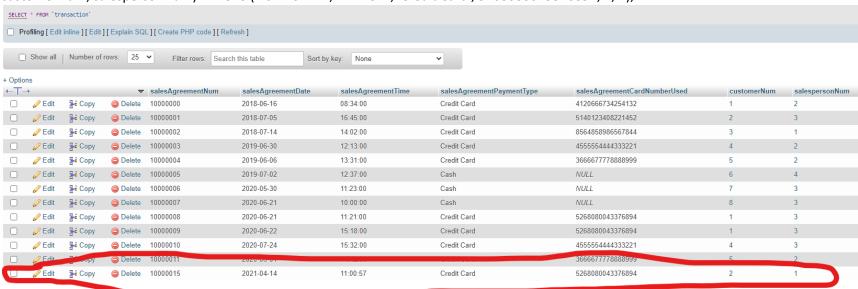


INSERT (with error)



Successful INSERT:

INSERT INTO `transaction` (salesAgreementDate, salesAgreementTime, salesAgreementPaymentType, salesAgreementCardNumberUsed, customerNum, salespersonNum) VALUES ('2021-04-14', DEFAULT, 'Credit Card', 5268080043376894, 2, 1);



Trigger #2 UPDATE

CREATE TRIGGER `updateTheCard` BEFORE UPDATE ON `transaction`

FOR EACH ROW BEGIN

IF NEW.salesAgreementPaymentType = 'Credit Card' THEN

SET @b= ValidateCreditCard(NEW.salesAgreementCardNumberUsed);

IF @b= 'Not Valid!' THEN

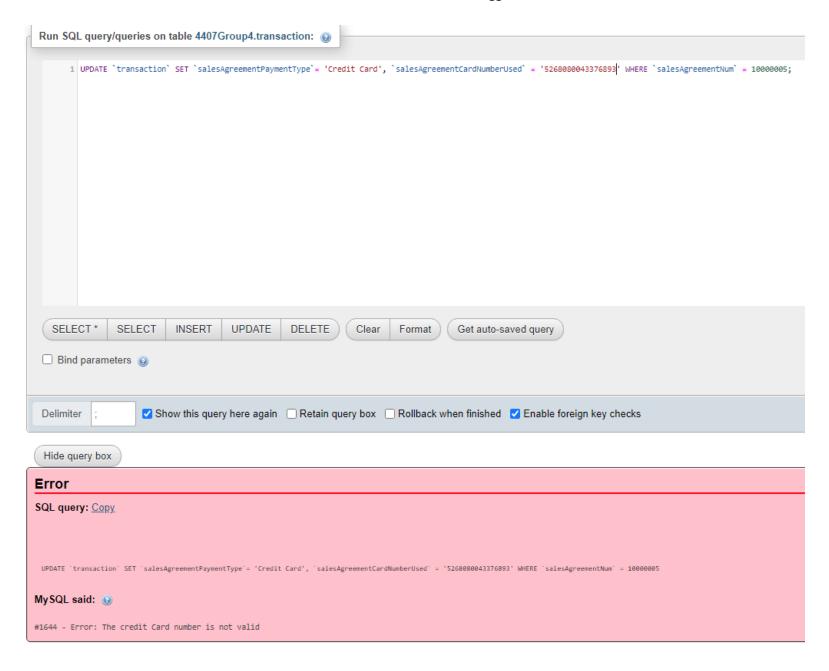
SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = 'Error: The credit Card number is not valid';

-- https://dev.mysql.com/doc/refman/8.0/en/signal.html

END IF;

END IF;

END



UPDATE (successful)

