

## Q5 CODE

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--
-- COMP 421: Submission 03
-- Question 05
-- Group 40
--

-- Increase the appropriate category count and create a notification for subscribers
of that category
CREATE OR REPLACE FUNCTION update_category() RETURNS trigger AS $newProduct$
BEGIN
    UPDATE category SET product_count = product_count + 1 WHERE cat_id =
NEW.cat_id;
    INSERT INTO notification (content, type, p_id) VALUES ('new product', 1,
NEW.p_id);
    RETURN NEW;
END;
$newProduct$ LANGUAGE plpgsql;

-- When a new product is inserted, call the procedure update_category()
CREATE TRIGGER update_cat AFTER INSERT ON product
FOR EACH ROW EXECUTE PROCEDURE update_category();

INSERT INTO product (title, description, price, is_sold, datetime, expiry, u_id,
cat_id) VALUES ('the other shoe', 'comes with 2 laces', 421, false, CURRENT_TIMESTAMP,
CURRENT_TIMESTAMP, 75, 4);
```

## BEFORE INSERT STATEMENT

### Product Table

p_id	title	description	price	image	is_sold	datetime	expiry	u_id	cat_id
88	mobile	Down-sized even-keeled hardware	\$65.87	http://dummyimage.com/250x250.jpg/5fa2dd/ffffff	<input type="checkbox"/>	2016-10-27 00:00:00.000000	2017-01-16 00:00:00.000000	94	4
89	background	Secured bottom-line Graphical User Interface	\$215.28	http://dummyimage.com/250x250.jpg/5fa2dd/ffffff	<input type="checkbox"/>	2016-04-07 00:00:00.000000	2016-12-07 00:00:00.000000	29	5
90	archive	Open-architected empowering open architecture	\$180.29	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2016-04-05 00:00:00.000000	2016-10-24 00:00:00.000000	100	4
91	Cross-group	Proactive bottom-line moratorium	\$297.42	http://dummyimage.com/250x250.jpg/ff4444/ffffff	<input type="checkbox"/>	2016-12-28 00:00:00.000000	2016-05-16 00:00:00.000000	90	9
92	Synergistic	Progressive grid-enabled access	\$203.48	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2016-04-01 00:00:00.000000	2016-09-29 00:00:00.000000	8	6
93	zero administration	Inverse dedicated local area network	\$32.09	http://dummyimage.com/250x250.jpg/ff4444/ffffff	<input type="checkbox"/>	2016-09-25 00:00:00.000000	2016-09-09 00:00:00.000000	3	9
94	solution	Virtual directional service-desk	\$35.21	http://dummyimage.com/250x250.jpg/cc0000/ffffff	<input type="checkbox"/>	2016-10-19 00:00:00.000000	2016-06-27 00:00:00.000000	80	2
95	Public-key	Reverse-engineered tertiary circuit	\$58.58	http://dummyimage.com/250x250.jpg/ff4444/ffffff	<input type="checkbox"/>	2016-05-01 00:00:00.000000	2016-06-05 00:00:00.000000	72	1
96	encompassing	Customizable maximized middleware	\$254.07	http://dummyimage.com/250x250.jpg/5fa2dd/ffffff	<input type="checkbox"/>	2016-06-28 00:00:00.000000	2016-07-07 00:00:00.000000	45	1
97	attitude-oriented	Face to face secondary orchestration	\$56.22	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2016-02-24 00:00:00.000000	2016-12-14 00:00:00.000000	49	5
98	Pre-emptive	Self-enabling client-server framework	\$27.85	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2016-07-16 00:00:00.000000	2016-04-16 00:00:00.000000	95	10
99	capacity	Stand-alone clear-thinking moderator	\$76.26	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2016-10-29 00:00:00.000000	2016-05-03 00:00:00.000000	68	4
100	archive	Cross-platform asymmetric solution	\$140.60	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2016-11-01 00:00:00.000000	2016-12-23 00:00:00.000000	93	8
101	iPhone 7	swag phone	\$999.99	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2017-03-13 18:26:17.235000	2017-03-13 18:26:17.235000	1	2
102	Swag Shoes	These shoes are really swagelicious	\$99.99	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2017-03-18 02:01:42.660000	2017-03-18 02:01:42.660000	10	2
103	asd	asdlaslf	\$10.00	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2017-03-20 14:11:35.237000	2017-03-20 14:11:35.238000	94	9
104	one single shoe	just a shoe - no lace	\$4,000.00	<null>	<input type="checkbox"/>	2017-03-20 00:00:00.000000	2017-03-20 00:00:00.000000	75	4
105	Swag Book	This book is really swag	\$10.00	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2017-03-21 00:24:16.677000	2017-03-21 00:24:16.677000	94	3
106	Leather coat	Gucci leather coat, brand new	\$999.99	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2017-03-21 00:37:24.680000	2017-03-21 00:37:24.681000	94	4
107	Macbook Air	Barely used Macbook Air	\$799.99	http://dummyimage.com/250x250.jpg/dddddd/000000	<input type="checkbox"/>	2017-03-22 11:32:30.360000	2017-03-22 11:32:30.361000	94	1

### Category Table

cat_id	name	description	product_count	user_count	created_by
1	Home	Proactive real-time productivity	10	0	87
2	Books	Synchronised foreground strategy	13	1	97
3	Clothing	Face to face regional attitude	16	1	42
4	Electronics	Front-line transitional extranet	5	0	2
5	Sporting Goods	Digitized exuding contingency	8	0	15
6	Accessories	Monitored human-resource portal	14	0	70
7	Art	Secured reciprocal synergy	9	0	25
8	Cars	Fully-configurable zero tolerance local area network	9	1	100
9	Musical Instruments	Organic transitional firmware	9	1	12
10	Toys	User-friendly maximized adapter	13	1	12

## Notification Table

SQL q5.sql × cs421.cs421g40.category × cs421.cs421g40.notification ×					
25 rows					
<Filter criteria>					
	n_id	content	type	p_id	t_id
9	21	transaction	0	7	1
10	1	comment	2	8	<null>
11	2	comment	2	95	<null>
12	3	comment	2	57	<null>
13	4	comment	2	95	<null>
14	5	comment	2	41	<null>
15	7	transaction	0	58	2
16	8	transaction	0	8	3
17	11	bid	3	99	<null>
18	12	bid	3	10	<null>
19	13	bid	3	27	<null>
20	14	bid	3	42	<null>
21	15	bid	3	87	<null>
22	22	new product	1	116	<null>
23	23	new product	1	117	<null>
24	24	new product	1	118	<null>
25	25	new product	1	119	<null>

## AFTER INSERT STATEMENT

### Product Table

cs421.cs421g40.product ×									
108 rows									
<Filter criteria>									
p_id	p_title	description	price	image	u_sold	datetime	expiry	u_id	cat_id
90	archive	Open-architected empowering open architecture	\$180.29	http://dummyimage.com/250x250.jpg/cccccc/000000	<input type="checkbox"/>	2016-04-09 00:00:00.000000	2016-10-24 00:00:00.000000	100	4
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108	the other shoe	comes with 2 laces	\$421.00	<null>	<input type="checkbox"/>	2017-03-23 17:15:14.262996	2017-03-23 17:15:14.262996	75	4

