R7c: SQL query, testing with production data

Filter comment by user_id

```
Select * from Comment where user_id = 100 or user_id = 200;
```

	comment_id	rating	updated_time	content	user_id	product_id
*	NULL	NULL	NULL	NULL	NULL	NULL

Filter comment by product_id

```
Select * from Comment Where
(product_id >= 100 and product_id < 200) or
(product_id >= 300 and product_id < 400) ;
```

	comment_id	rating	updated_time	content	user_id	product_id
▶	904	3	2021-03-15 03:35:01	Oheaduut linpol di zearo lil za wogelzo kigasa an...	1804	100
	1963	1	2021-05-10 13:14:00	Apihimwu zob ku mer loti vuiw ufsat atu namvi o...	2863	100
	2195	4	2021-03-25 00:33:22	Di fu didva opunahro likec rez zepgur ucbojme z...	3095	100
	2848	4	2021-08-10 03:50:30	Vefmehbap omnego um win reh otco ku ecdol fa...	3748	100
	3239	0	2019-09-10 10:20:16	Zatvudfu mumik eti tabu pes uvopewkoz sudavi ...	4139	100
	3327	0	2021-05-17 11:50:00	Ibuugraf rehom hifjuc hob muip aru tiniw lowon...	4227	100

Return all products that belong to a specific price range:

```
/* Return all products that belong to a specific price range */
SELECT * FROM product where (price >= 15 and price <= 20);
```

	product_id	description	price	product_rating	picture_source	product_name
▶	295	Vahage tilhahe pabduhunu oliiwo iwesewrop ko ...	19.61	1.6	http://ku.cm/images	apple95
*	NULL	NULL	NULL	NULL	NULL	NULL

Return all products that belong to a specific rating range:

```
/* Return all products that belong to a specific rating range */
SELECT * FROM product where (product_rating >= 4 and product_rating <= 5);
```

product_id	description	price	product_rating	picture_source	product_name
2	Vorpebsi pease nepowzuf we cimsik faig bak ba...	9671.65	4.0	http://rud.ir/images	napkin2
11	Poodufi jo obdewuj pamor huama vivnubbaf co ...	9117.35	4.4	http://ofutu.dk/images	napkin11
14	Ojouregef bewetduv ikebo wacpuhof vefleba ru...	1013.58	4.8	http://saaw.pm/images	napkin14
17	Awu jupu ti zup magimaf ana zegiw iligu po ono...	1875.23	4.0	http://fid.jo/images	napkin17
23	Fojeke janaoro jil peb vaca kitsezpo nicab zavo ...	7829.26	4.2	http://wa.ax/images	napkin23

Sort products by price or ratings (both ascending and descending):

```
/* Sort products by price or ratings (both ascending and descending) */
SELECT * FROM product ORDER BY product_rating ASC;
SELECT * FROM product ORDER BY product_rating DESC;
```

product_id	description	price	product_rating	picture_source	product_name
38	Kidkeibi jefu dik kek sip kim juv ekwak cosikno a...	4834.53	0.0	http://bu.cx/images	napkin38
77	Osovo jiguami od rolgo sakrophe few edfigas ho...	9635.25	0.0	http://sobke.gy/images	napkin77
82	Oniupeata tom ij ar duz ofu vutudci eswakak no...	631.83	0.0	http://uro.sy/images	napkin82
100	Elo soz zahuvpi desfeje nescigel sonbaja co picu...	1664.53	0.0	http://ki.tf/images	napkin100
187	Ucup ewdef za feri apta aruc liwwez mira janan...	3952.15	0.0	http://urowegev.uy/images	milk87

product_id	description	price	product_rating	picture_source	product_name
27	Pim suhumev iluvidjad hab fatol samfo pozasbil li...	2071.94	5.0	http://adtundi.gw/images	napkin27
41	Lekba lozi til he copi beh naafahu vu raucona eg...	9006.41	5.0	http://iperabake.fj/images	napkin41
43	Gomtuz ga kezut poremu hicro sigkillo gowsih leil...	2677.07	5.0	http://piele.mk/images	napkin43
63	Hoikeet wo nu dur he pitlov feci oka licesbe hen...	7627.94	5.0	http://rim.tl/images	napkin63
85	Bef rogzi jozog haogisa pocagboz udri jinluj gai...	4464.57	5.0	http://mos.pw/images	napkin85

```
SELECT * FROM product ORDER BY price ASC;
SELECT * FROM product ORDER BY price DESC;
```

product_id	description	price	product_rating	picture_source	product_name
507	Epte wu ecukozovi de tocu cu cad ze cagob ocri...	3.17	1.6	http://lezuw.im/images	T-shirt7
295	Vahage tilhahe pabduhunu oliiwo iwesewrop ko ...	19.61	1.6	http://ku.cm/images	apple95
640	Ibagugpe hec bamo bubakbo naj cikde tivap pa...	23.52	4.0	http://sij.mc/images	fish40
256	Bo hooh ihcop duvneci suteriruk gabnalaf edru ...	24.08	1.8	http://at.td/images	apple56
196	Bojilavuv gepuf tika demjete nipal alajazek adoji...	27.00	0.7	http://emo.bh/images	milk96

product_id	description	price	product_rating	picture_source	product_name
685	Kanviwik kahramu ac buibco rakuc ogida douv b...	9991.88	4.7	http://evuvi.eu/images	fish85
491	Na rac wolwu fig wuhuz dud ner fuk sodo kence...	9956.08	4.9	http://vo.sj/images	bread91
562	Lel eji laver meehoboc acuotu sodevo utesuz jo...	9954.99	2.9	http://dos.ht/images	T-shirt62
337	Motat wip ja pat ulaud suza opacev afo vad kok...	9947.55	0.5	http://guklej.as/images	orrange37
572	Dicbeko zolgad tube arliso nompoz fiffogni zi ho...	9938.74	2.2	http://bivgusuz.al/images	T-shirt72

Combinations of the above functionalities, including:

Sort all products in the selected category/categories by price/rating:

```
-- Sort all products in the selected category/categories by price:
select * from product where
product_id in (select product_id from CategoryProduct where category_id = 100) order by price asc;
select * from product where
product_id in (select product_id from CategoryProduct where category_id = 300 or category_id = 500) order by price desc;
```

product_id	description	price	product_rating	picture_source	product_name
196	Bojilavuv gepuf tika demjete nipal alajazek adoji...	27.00	0.7	http://emo.bh/images	milk96
33	Nueke udahahin jonap lodive racciok tatvuluw ri...	255.95	4.9	http://jees.lc/images	napkin33
15	Mi jec nifnezi ok wad ikho ujrot nifze ivacuba nu...	340.04	0.4	http://ova.ls/images	napkin15
177	Piwuos zimewu rilecit sasamba wap vu dinma se...	418.77	3.4	http://pehsupe.org/images	milk77
139	Dag munetapu refgegdar vo bieh bonemuc hub ...	449.72	0.6	http://sucjahpu.vi/images	milk39

product_id	description	price	product_rating	picture_source	product_name
491	Na rac wolwu fig wuhuz dud ner fuk sodo kence...	9956.08	4.9	http://vo.sj/images	bread91
562	Lel eji laver meehoboc acuotu sodevo utesuz jo...	9954.99	2.9	http://dos.ht/images	T-shirt62
337	Motat wip ja pat ulaud suza opacev afo vad kok...	9947.55	0.5	http://guklej.as/images	orrange37
572	Dicbeko zolgad tube arliso nompoz fiffogni zi ho...	9938.74	2.2	http://bivgusuz.al/images	T-shirt72
283	Wo civhi nodadwu pigni sope wuhkice wupro te...	9935.31	0.4	http://neju.gh/images	apple83

```
-- Sort all products in the selected category/categories by rating
select * from product where
product_id in (select product_id from CategoryProduct where category_id = 100) order by product_rating asc;
select * from product where
product_id in (select product_id from CategoryProduct where category_id = 300 or category_id = 500) order by product_rating desc;
```

product_id	description	price	product_rating	picture_source	product_name
38	Kidkeibi jefu dik kek sip kim juv ekwak cosikno a...	4834.53	0.0	http://bu.cx/images	napkin38
77	Osovo jiguami od rolgo sakrophe few edfigas ho...	9635.25	0.0	http://sobke.gy/images	napkin77
82	Oniupeata tom ij ar duz ofu vutudci eswakak no...	631.83	0.0	http://uro.sy/images	napkin82
100	Elo soz zahuvpi desfeje nescigel sonbaja co picu...	1664.53	0.0	http://ki.tf/images	napkin100
187	Ucup ewdef za feri apta aruc liwwez mira janan...	3952.15	0.0	http://urowegev.uy/images	milk87

product_id	description	price	product_rating	picture_source	product_name
491	Na rac wolwu fig wuhuz dud ner fuk sodo kence...	9956.08	4.9	http://vo.sj/images	bread91
562	Lel eji laver meehoboc acuotu sodevo utesuz jo...	9954.99	2.9	http://dos.ht/images	T-shirt62
337	Motat wip ja pat ulaud suza opacev afo vad kok...	9947.55	0.5	http://guklej.as/images	orrange37
572	Dicbeko zolgad tube arliso nompoz fiffogni zi ho...	9938.74	2.2	http://bivgusuz.al/images	T-shirt72
283	Wo civhi nodadwu pigni sope wuhkice wupro te...	9935.31	0.4	http://neju.gh/images	apple83

Sort all products in the selected price range(s) by rating (both asc/desc):

```
-- Sort all products in the selected price range(s) by rating
select * from product where
product_id in (select product_id from CategoryProduct where (price >= 0 and price <= 20)) order by product_rating asc;
select * from product where
product_id in (select product_id from CategoryProduct where (price >= 0 and price <= 15)) order by product_rating desc;
```

product_id	description	price	product_rating	picture_source	product_name
295	Vahage tilhahe pabduhunu oliiwo iwesewrop ko ...	19.61	1.6	http://ku.cm/images	apple95
507	Epte wu ecukozovi de tocu cu cad ze cagob ocri...	3.17	1.6	http://lezuw.im/images	T-shirt7
NULL	NULL	NULL	NULL	NULL	NULL

product_id	description	price	product_rating	picture_source	product_name
▶ 507	Epte wu ecukozovi de tocu cu cad ze cagob ocri…	3.17	1.6	http://lezuw.im/images	T-shirt7
* NULL	NULL	NULL	NULL	NULL	NULL

Return all products in the selected category/categories in the selected price range(s), sorted by rating (both asc/desc):

```
-- Return all products in the selected category/categories in the selected price range(s)
select * from product where
product_id in (select product_id from CategoryProduct where (price >= 0 and price <= 20 and category_id = 500))
order by product_rating asc;

select * from product where
product_id in (select product_id from CategoryProduct where (price >= 0 and price <= 100
and (category_id = 300 or category_id = 500))) order by product_rating asc;
```

product_id	description	price	product_rating	picture_source	product_name
▶ 507	Epte wu ecukozovi de tocu cu cad ze cagob ocri…	3.17	1.6	http://lezuw.im/images	T-shirt7
* NULL	NULL	NULL	NULL	NULL	NULL

product_id	description	price	product_rating	picture_source	product_name
▶ 216	Tebfigaw pew ojwiwi vufhob me fufezo pisoma…	83.55	0.5	http://udo.et/images	apple16
295	Vahage tilhahe pabduhunu oliiwo iwesewrop ko …	19.61	1.6	http://ku.cm/images	apple95
507	Epte wu ecukozovi de tocu cu cad ze cagob ocri…	3.17	1.6	http://lezuw.im/images	T-shirt7
256	Bo hooh ihcop duvneci suteriruk gabnalaf edru …	24.08	1.8	http://at.td/images	apple56
288	Mow tawmaov imki hubufukow og an nodi migacl…	37.13	4.5	http://fafovanon.af/images	apple88