

## R7c: SQL query, testing with production data

For the feature on filtering comments, since we only have production data for products, there is no difference between sample and production databases for this feature.

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 bewetdub 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	Oniueata 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://uowegev.uy/images	milk87

	product_id	description	price	product_rating	picture_source	product_name
▶	27	Pim suhumev iluvijad 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://ezuw.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 hooihcop 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	orange37
	572	Dicbeko zolgad tube arliso nompouz 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	orange37
	572	Dicbeko zolgad tube arliso nompouz fiffogni zi ho...	9938.74	2.2	http://bivgusuz.al/images	T-shirt72
	283	Wo civhi nodadwpu 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 jigumi od rolgo sakrophe few edfigas ho...	9635.25	0.0	http://sobke.gy/images	napkin77
	82	Oniueata 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 livwez mira janana...	3952.15	0.0	http://uowegev.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	orange37
	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 oliivo 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	<a href="http://udo.et/images">http://udo.et/images</a>	apple16
	295	Vahage tilhahe pabduhunu oliwo iwesewrop ko ...	19.61	1.6	<a href="http://ku.cm/images">http://ku.cm/images</a>	apple95
	507	Epte wu ecukozovi de tocu cu cad ze cagob ocri...	3.17	1.6	<a href="http://lezuw.im/images">http://lezuw.im/images</a>	T-shirt7
	256	Bo hoooh ihcop duvneci suteriruk gabnalaf edru ...	24.08	1.8	<a href="http://at.td/images">http://at.td/images</a>	apple56
	288	Mow tawmaov imki hubufukow og an nodi migad...	37.13	4.5	<a href="http://fafovanon.af/images">http://fafovanon.af/images</a>	apple88