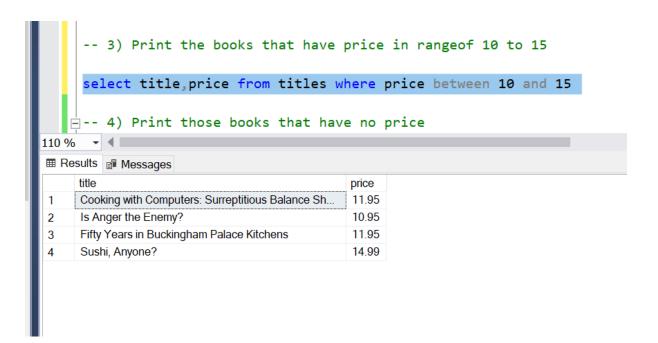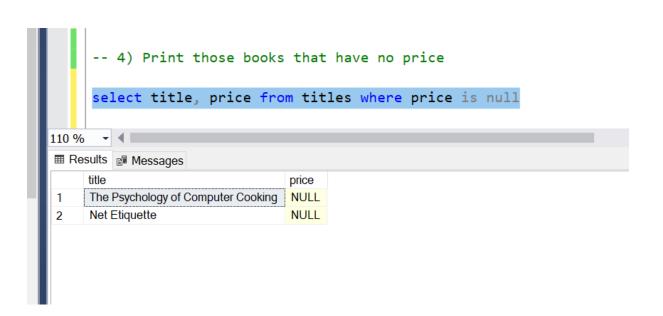```sql
-- 1) Print all the titles names

select title from titles

-- 2) Print all the titles that have been published by 1389

select * from titles where pub_id = 1389

-- 3) Print the books that have price in rangeof 10 to 15
```

110 %

Results | Messages

| | title |
|---|---|
| 1 | But Is It User Friendly? |
| 2 | Computer Phobic AND Non-Phobic Individuals: Beha... |
| 3 | Cooking with Computers: Surreptitious Balance She... |
| 4 | Emotional Security: A New Algorithm |
| 5 | Fifty Years in Buckingham Palace Kitchens |
| 6 | Is Anger the Enemy? |
| 7 | Life Without Fear |
| 8 | Net Etiquette |
| 9 | Onions, Leeks, and Garlic: Cooking Secrets of the M... |
| 10 | Prolonged Data Deprivation: Four Case Studies |
| 11 | Secrets of Silicon Valley |
| 12 | Silicon Valley Gastronomic Treats |
| 13 | Straight Talk About Computers |

```sql
select * from titles where pub_id = 1389

-- 3) Print the books that have price in rangeof 10 to 15
```

110 %
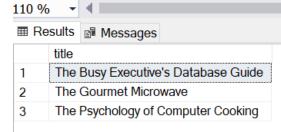
Results | Messages

	title_id	title	type	pub_id	price	advance	royalty	ytd_sales	notes	
1	BU1032	The Busy Executive's Database Guide	business	1389	19.99	5000.00	10	4095	An overview of available database systems with e...	
2	BU1111	Cooking with Computers: Surreptitious Balance Sh...	business	1389	11.95	5000.00	10	3876	Helpful hints on how to use your electronic resourc...	
3	BU7832	Straight Talk About Computers	business	1389	19.99	5000.00	10	4095	Annotated analysis of what computers can do for y...	
4	PC1035	But Is It User Friendly?	popular_comp	1389	22.95	7000.00	16	8780	A survey of software for the naive user, focusing o...	
5	PC8888	Secrets of Silicon Valley	popular_comp	1389	20.00	8000.00	10	4095	Muckraking reporting on the world's largest compu...	
6	PC9999	Net Etiquette	popular_comp	1389	NULL	NULL	NULL	NULL	A must-read for computer conferencing.	

```
-- 3) Print the books that have price in rangeof 10 to 15

select title,price from titles where price between 10 and 15

-- 4) Print those books that have no price
```

110 %

Results | **Messages**

	title	price
1	Cooking with Computers: Surreptitious Balance Sh...	11.95
2	Is Anger the Enemy?	10.95
3	Fifty Years in Buckingham Palace Kitchens	11.95
4	Sushi, Anyone?	14.99

```
-- 4) Print those books that have no price

select title, price from titles where price is null
```

110 %

Results | **Messages**

	title	price
1	The Psychology of Computer Cooking	NULL
2	Net Etiquette	NULL

```
-- 5) Print the book names that strat with 'The'

select title from titles where title like 'The%'
```

110 %

Results | **Messages**

	title
1	The Busy Executive's Database Guide
2	The Gourmet Microwave
3	The Psychology of Computer Cooking

```sql
-- 6) Print the book names that do not have 'v' in their name

select title from titles where  title NOT LIKE '%v%';
```

110 %

Results | Messages

	title
1	But Is It User Friendly?
2	Cooking with Computers: Surreptitious Balance Sh...
3	Emotional Security: A New Algorithm
4	Fifty Years in Buckingham Palace Kitchens
5	Is Anger the Enemy?
6	Life Without Fear
7	Net Etiquette
8	Onions, Leeks, and Garlic: Cooking Secrets of the ...
9	Straight Talk About Computers
10	Sushi, Anyone?
11	The Psychology of Computer Cooking
12	You Can Combat Computer Stress!

```sql
-- 7) print the books sorted by the royalty

select * from titles
where royalty is not null
order by royalty;
```

110 %

Results | Messages

	title_id	title	type	pub_id	price	advance	royalty	ytd_sales	notes	pubdate
1	BU1032	The Busy Executive's Database Guide	business	1389	19.99	5000.00	10	4095	An overview of available database systems with emp...	1991-06
2	BU1111	Cooking with Computers: Surreptitious Balance She...	business	1389	11.95	5000.00	10	3876	Helpful hints on how to use your electronic resourc...	1991-06
3	BU7832	Straight Talk About Computers	business	1389	19.99	5000.00	10	4095	Annotated analysis of what computers can do for yo...	1991-06
4	PS2106	Life Without Fear	psychology	0736	7.00	6000.00	10	111	New exercise, meditation, and nutritional techniques...	1991-10
5	PS3333	Prolonged Data Deprivation: Four Case Studies	psychology	0736	19.99	2000.00	10	4072	What happens when the data runs dry? Searching ...	1991-06
6	PS7777	Emotional Security: A New Algorithm	psychology	0736	7.99	4000.00	10	3336	Protecting yourself and your loved ones from undue ...	1991-06
7	TC3218	Onions, Leeks, and Garlic: Cooking Secrets of the M...	trad_cook	0877	20.95	7000.00	10	375	Profusely illustrated in color, this makes a wonderful ...	1991-10
8	PC8888	Secrets of Silicon Valley	popular_comp	1389	20.00	8000.00	10	4095	Muckraking reporting on the world's largest compute...	1994-06
9	PS1372	Computer Phobic AND Non-Phobic Individuals: Beh...	psychology	0877	21.59	7000.00	10	375	A must for the specialist, this book examines the diff...	1991-10
10	TC7777	Sushi, Anyone?	trad_cook	0877	14.99	8000.00	10	4095	Detailed instructions on how to make authentic Jap...	1991-06
11	PS2091	Is Anger the Enemy?	psychology	0736	10.95	2275.00	12	2045	Carefully researched study of the effects of strong e...	1991-06
12	MC2222	Silicon Valley Gastronomic Treats	mod_cook	0877	19.99	0.00	12	2032	Favorite recipes for quick, easy, and elegant meals.	1991-06

```sql
-- 8) print the books sorted by publisher in descending then by types in asending then by price in descending

select * from titles
order by pub_id desc , type , price desc
```

10 %

Results | Messages

	title_id	title	type	pub_id	price	advance	royalty	ytd_sales	notes	pubdate
1	BU7832	Straight Talk About Computers	business	1389	19.99	5000.00	10	4095	Annotated analysis of what computers can do for y...	1991-06
2	BU1032	The Busy Executive's Database Guide	business	1389	19.99	5000.00	10	4095	An overview of available database systems with em...	1991-06
3	BU1111	Cooking with Computers: Surreptitious Balance She...	business	1389	11.95	5000.00	10	3876	Helpful hints on how to use your electronic resourc...	1991-06
4	PC1035	But Is It User Friendly?	popular_comp	1389	22.95	7000.00	16	8780	A survey of software for the naive user, focusing on...	1991-06
5	PC8888	Secrets of Silicon Valley	popular_comp	1389	20.00	8000.00	10	4095	Muckraking reporting on the world's largest comput...	1994-06
6	PC9999	Net Etiquette	popular_comp	1389	NULL	NULL	NULL	NULL	A must-read for computer conferencing.	2024-05
7	MC2222	Silicon Valley Gastronomic Treats	mod_cook	0877	19.99	0.00	12	2032	Favorite recipes for quick, easy, and elegant meals.	1991-06
8	MC3021	The Gourmet Microwave	mod_cook	0877	2.99	15000.00	24	22246	Traditional French gourmet recipes adapted for mo...	1991-06
9	PS1372	Computer Phobic AND Non-Phobic Individuals: Beh...	psychology	0877	21.59	7000.00	10	375	A must for the specialist, this book examines the dif...	1991-10
10	TC3218	Onions, Leeks, and Garlic: Cooking Secrets of the M...	trad_cook	0877	20.95	7000.00	10	375	Profusely illustrated in color, this makes a wonderful...	1991-10
11	TC7777	Sushi, Anyone?	trad_cook	0877	14.99	8000.00	10	4095	Detailed instructions on how to make authentic Jap...	1991-06
12	TC4203	Fifty Years in Buckingham Palace Kitchens	trad_cook	0877	11.95	4000.00	14	15096	More anecdotes from the Queen's favorite cook de...	1991-06
13	MC3026	The Psychology of Computer Cooking	UNDECIDED	0877	NULL	NULL	NULL	NULL	NULL	2024-05
14	BU2075	You Can Combat Computer Stress!	business	0736	2.99	10125.00	24	18722	The latest medical and psychological techniques for...	1991-06
15	PS3333	Prolonged Data Deprivation: Four Case Studies	psychology	0736	19.99	2000.00	10	4072	What happens when the data runs dry? Searching ...	1991-06
16	PS2091	Is Anger the Enemy?	psychology	0736	10.95	2275.00	12	2045	Carefully researched study of the effects of strong ...	1991-06

```sql
-- 9) Print the average price of books in every type

select type, AVG(price) 'Average price by type' from titles group by type;

-- 10) print all the types in uniques
```

	type	Average price by type
1	business	13.73
2	mod_cook	11.49
3	popular_comp	21.475
4	psychology	13.504
5	trad_cook	15.9633
6	UNDECIDED	NULL

```sql
select type, AVG(price)  'Average price by type'  from titles group by type;

-- 10) print all the types in uniques
select distinct type from titles;
```

	type
1	business
2	mod_cook
3	popular_comp
4	psychology
5	trad_cook
6	UNDECIDED

```sql
-- 11) Print the first 2 costliest books

Select top 2 * from titles
where price is not null
order by price
```

	title_id	title	type	pub_id	price	advance	royalty	ytd_sales	notes	pubdate
1	BU2075	You Can Combat Computer Stress!	business	0736	2.99	10125.00	24	18722	The latest medical and psychological techniques f...	1991-06-30 00:00:00.000
2	MC3021	The Gourmet Microwave	mod_cook	0877	2.99	15000.00	24	22246	Traditional French gourmet recipes adapted for m...	1991-06-18 00:00:00.000

```sql
select * from titles
where type = 'business' and price < 20 and advance > 7000
```

110 %

Results | **Messages**

	title_id	title	type	pub_id	price	advance	royalty	ytd_sales	notes	pubdate
1	BU2075	You Can Combat Computer Stress!	business	0736	2.99	10125.00	24	18722	The latest medical and psychological techniques ...	1991-06-30 00:00:00.000

```sql
-- 14) Print the Authors who are from 'CA'
select * from authors where state = 'CA'

-- 15) Print the count of authors from every state
```

110 %

Results | **Messages**

	au_id	au_lname	au_fname	phone	address	city	state	zip	contract
1	172-32-1176	White	Johnson	408 496-7223	10932 Bigge Rd.	Menlo Park	CA	94025	1
2	213-46-8915	Green	Marjorie	415 986-7020	309 63rd St. #411	Oakland	CA	94618	1
3	238-95-7766	Carson	Cheryl	415 548-7723	589 Darwin Ln.	Berkeley	CA	94705	1
4	267-41-2394	O'Leary	Michael	408 286-2428	22 Cleveland Av. #14	San Jose	CA	95128	1
5	274-80-9391	Straight	Dean	415 834-2919	5420 College Av.	Oakland	CA	94609	1
6	409-56-7008	Bennet	Abraham	415 658-9932	6223 Bateman St.	Berkeley	CA	94705	1
7	427-17-2319	Dull	Ann	415 836-7128	3410 Blonde St.	Palo Alto	CA	94301	1
8	472-27-2349	Gringlesby	Burt	707 938-6445	PO Box 792	Covelo	CA	95428	1
9	486-29-1786	Locksley	Charlene	415 585-4620	18 Broadway Av.	San Francisco	CA	94130	1
10	672-71-3249	Yokomoto	Akiko	415 935-4228	3 Silver Ct.	Walnut Creek	CA	94595	1
11	724-08-9931	Stringer	Dirk	415 843-2991	5420 Telegraph Av.	Oakland	CA	94609	0
12	724-80-9391	MacFeather	Stearns	415 354-7128	44 Upland Hts.	Oakland	CA	94612	1
13	756-30-7391	Karsen	Livia	415 534-9219	5720 McAuley St.	Oakland	CA	94609	1
14	846-92-7186	Hunter	Sheryl	415 836-7128	3410 Blonde St.	Palo Alto	CA	94301	1
15	893-72-1158	McBadden	Heather	707 448-4982	301 Putnam	Vacaville	CA	95688	0

```sql
-- 15) Print the count of authors from every state

select state, count(au_id) from authors group by state
```

110 %

Results | **Messages**

	state	(No column name)
1	CA	15
2	IN	1
3	KS	1
4	MD	1
5	MI	1
6	OR	1
7	TN	1
8	UT	2

https://**pgexercises.com**/questions/basic/

Simple SQL Queries

Begin!

This category deals with the basics of SQL. It covers select and where clauses, case expressions, unions, and a few other odds and ends. If you're already educated in SQL you will probably find these exercises fairly easy. If not, you should find them a good point to start learning for the more difficult categories ahead!

If you struggle with these questions, I strongly recommend Learning SQL, by Alan Beaulieu, as a concise and well-written book on the subject. If you're interested in the fundamentals of database systems (as opposed to just how to use them), you should also investigate An Introduction to Database Systems by C.J. Date.

- Retrieve everything from a table ✓
- Retrieve specific columns from a table ✓
- Control which rows are retrieved ✓
- Control which rows are retrieved - part 2 ✓
- Basic string searches ✓
- Matching against multiple possible values ✓
- Classify results into buckets
- Working with dates
- Removing duplicates, and ordering results ✓
- Combining results from multiple queries ✓
- Simple aggregation ✓
- More aggregation ✓