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SQL SELECT, WHERE, DISTINCT practice

1. Write a select statement to return all columns and rows from the customer table.

```
Select *
from customer;
```

	customer_id [PK] integer	store_id smallint	first_name character varying (45)	last_name character varying (45)	email character varying (50)	address_id smallint	activebo boolean
1	524	1	Jared	Ely	jared.ely@sakilacusto...	530	true
2	1	1	Mary	Smith	mary.smith@sakilacu...	5	true
3	2	1	Patricia	Johnson	patricia.johnson@sak...	6	true
4	3	1	Linda	Williams	linda.williams@sakila...	7	true
5	4	2	Barbara	Jones	barbara.jones@sakila...	8	true
6	5	1	Elizabeth	Brown	elizabeth.brown@saki...	9	true
7	6	2	Jennifer	Davis	jennifer.davis@sakila...	10	true
8	7	1	Maria	Miller	maria.miller@sakilac...	11	true
9	8	2	Susan	Wilson	susan.wilson@sakila...	12	true
10	9	2	Margaret	Moore	margaret.moore@sak...	13	true
11	10	1	Dorothy	Taylor	dorothy.taylor@sakila...	14	true
12	11	2	Lisa	Anderson	lisa.anderson@sakila...	15	true
13	12	1	Nancy	Thomas	nancy.thomas@sakila...	16	true
14	13	2	Karen	Jackson	karen.jackson@sakila...	17	true

2. Write a query to select first name, last name, and email from the customer table.

```
select first_name, last_name ,email
from customer;
```

	first_name character varying (45)	last_name character varying (45)	email character varying (50)
1	Jared	Ely	jared.ely@sakilacustomer.org
2	Mary	Smith	mary.smith@sakilacustomer.org
3	Patricia	Johnson	patricia.johnson@sakilacustomer.org
4	Linda	Williams	linda.williams@sakilacustomer.org
5	Barbara	Jones	barbara.jones@sakilacustomer.org
6	Elizabeth	Brown	elizabeth.brown@sakilacustomer.org
7	Jennifer	Davis	jennifer.davis@sakilacustomer.org
8	Maria	Miller	maria.miller@sakilacustomer.org
9	Susan	Wilson	susan.wilson@sakilacustomer.org
10	Margaret	Moore	margaret.moore@sakilacustomer.org
11	Dorothy	Taylor	dorothy.taylor@sakilacustomer.org
12	Lisa	Anderson	lisa.anderson@sakilacustomer.org
13	Nancy	Thomas	nancy.thomas@sakilacustomer.org
14	Karen	Jackson	karen.jackson@sakilacustomer.org
15	Betty	White	betty.white@sakilacustomer.org
16	Helen	Harris	helen.harris@sakilacustomer.org
17	Sandra	Martin	sandra.martin@sakilacustomer.org
18	Donna	Thompson	donna.thompson@sakilacustomer.org

3. Write a query to return all rows and columns from the film table.

```
select *
 from film;
```

	film_id [PK] integer	title character varying (255)	description text	release_year integer	language_id smallint	rental_duration smallint	rental_rate numeric (4,2)
1	133	Chamber Italian	A Fateful R...	2006	1	7	4.99
2	384	Grosse Wonderful	A Epic Dra...	2006	1	5	4.99
3	8	Airport Pollock	A Epic Tale ...	2006	1	6	4.99
4	98	Bright Encounters	A Fateful Y...	2006	1	4	4.99
5	1	Academy Dinosaur	A Epic Dra...	2006	1	6	0.99
6	2	Ace Goldfinger	A Astoundi...	2006	1	3	4.99
7	3	Adaptation Holes	A Astoundi...	2006	1	7	2.99
8	4	Affair Prejudice	A Fanciful ...	2006	1	5	2.99
9	5	African Egg	A Fast-Pac...	2006	1	6	2.99
10	6	Agent Truman	A Intrepid ...	2006	1	3	2.99
11	7	Airplane Sierra	A Touching...	2006	1	6	4.99
12	9	Alabama Devil	A Thoughtf...	2006	1	3	2.99
13	10	Aladdin Calendar	A Action-P...	2006	1	6	4.99
14	11	Alamo Videotape	A Boring E...	2006	1	6	0.99
15	12	Alaska Phantom	A Fanciful ...	2006	1	6	0.99
16	213	Date Speed	A Touching...	2006	1	4	0.99
17	13	Ali Forever	A Action-P...	2006	1	4	4.99

4. Write a query to return unique rows from the release_year column in the film table.

```
select distinct (release_year)
from film;
```

	release_year integer
1	2006

5. Write a query to return unique rows from the rental_rate column in the film table.

```
select distinct ( rental_rate)
from film;
```

	rental_rate numeric (4,2)
1	2.99
2	4.99
3	0.99

6. A customer left us some feedback about our store. Write a query to find her email address – for Nancy Thomas.

```
select email from
customer
where first_name='Nancy'and last_name= 'Thomas';
```

	email character varying (50)
1	nancy.thomas@sakila...

7. We're trying to find a customer located at a certain address '259 Ipoh Drive' – can you find their phone number?

```
select phone , address
from address
where address = '259 Ipoh Drive' ;
```

	phone character varying (20)	address character varying (50)
1	419009857119	259 Ipoh Drive

8. Write a query from the customer table, where store id is 1 and address id is greater than 150.

```
select* from
customer
 where store_id=1 and address_id >150;
```

	customer_id [PK] integer	store_id smallint	first_name character varying (45)	last_name character varying (45)	email character varying (50)	addres smalli
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	
2	148	1	Eleanor	Hunt	eleanor.hunt@sakilacustomer.org	
3	149	1	Valerie	Black	valerie.black@sakilacustomer.org	
4	152	1	Alicia	Mills	alicia.mills@sakilacustomer.org	
5	155	1	Gail	Knight	gail.knight@sakilacustomer.org	
6	156	1	Bertha	Ferguson	bertha.ferguson@sakilacustomer.org	
7	158	1	Veronica	Stone	veronica.stone@sakilacustomer.org	
8	159	1	Jill	Hawkins	jill.hawkins@sakilacustomer.org	
9	161	1	Geraldine	Perkins	geraldine.perkins@sakilacustomer.org	
10	163	1	Cathy	Spencer	cathy.spencer@sakilacustomer.org	
11	166	1	Lynn	Payne	lynn.payne@sakilacustomer.org	
12	168	1	Regina	Berry	regina.berry@sakilacustomer.org	
13	170	1	Beatrice	Arnold	beatrice.arnold@sakilacustomer.org	
14	172	1	Bernice	Willis	bernice.willis@sakilacustomer.org	
15	173	1	Audrey	Ray	audrey.ray@sakilacustomer.org	
16	175	1	Annette	Olson	annette.olson@sakilacustomer.org	
17	176	1	June	Carroll	june.carroll@sakilacustomer.org	
18	179	1	Dana	Hart	dana.hart@sakilacustomer.org	
19	182	1	Renee	Lane	renee.lane@sakilacustomer.org	

9. Write a query from the payment table where the amount is either 4.99 or 1.99.

```
select *        from payment
 where amount = 4.99 or amount=1.99;
```

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
1	17504	341	1	1778	1.99	2007-02-16 17:23:14.996577
2	17512	343	2	1547	4.99	2007-02-16 00:10:50.996577
3	17520	344	2	1475	4.99	2007-02-15 19:36:27.996577
4	17523	345	1	1457	4.99	2007-02-15 18:34:15.996577
5	17525	345	2	2766	4.99	2007-02-19 16:13:41.996577
6	17531	347	1	3026	4.99	2007-02-20 10:16:26.996577
7	17549	352	1	1649	4.99	2007-02-16 07:48:59.996577
8	17550	352	1	1678	4.99	2007-02-16 09:36:54.996577
9	17551	352	1	1780	4.99	2007-02-16 17:40:11.996577
10	17552	352	2	3331	4.99	2007-02-21 08:06:19.996577
11	17557	354	1	2275	4.99	2007-02-18 04:59:55.996577
12	17564	356	1	2433	4.99	2007-02-18 16:38:43.996577
13	17566	357	1	1788	1.99	2007-02-16 18:15:44.996577
14	17567	357	2	1971	1.99	2007-02-17 07:52:25.996577
15	17575	359	2	1329	4.99	2007-02-15 09:53:32.996577
16	17576	359	2	1770	1.99	2007-02-16 16:36:21.996577
17	17578	359	1	2736	4.99	2007-02-19 14:11:46.996577
18	17583	361	2	2353	4.99	2007-02-18 11:21:51.996577

10. Write a query to return a list of transitions from the payment table where the amount is greater than 5.

```
select * from
payment
where amount>5;
```

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
1	17503	341	2	1520	7.99	2007-02-15 22:25:46.996577
2	17505	341	1	1849	7.99	2007-02-16 22:41:45.996577
3	17507	341	2	3130	7.99	2007-02-20 17:31:48.996577
4	17508	341	1	3382	5.99	2007-02-21 12:33:49.996577
5	17509	342	2	2190	5.99	2007-02-17 23:58:17.996577
6	17510	342	1	2914	5.99	2007-02-20 02:11:44.996577
7	17513	343	1	1564	6.99	2007-02-16 01:15:33.996577
8	17516	343	2	2461	6.99	2007-02-18 18:26:38.996577
9	17517	343	1	2980	8.99	2007-02-20 07:03:29.996577
10	17526	346	1	1994	5.99	2007-02-17 09:35:32.996577
11	17529	347	2	1711	8.99	2007-02-16 12:40:18.996577
12	17532	347	1	3092	8.99	2007-02-20 14:33:08.996577
13	17533	347	1	3326	7.99	2007-02-21 07:33:16.996577
14	17535	348	1	2041	8.99	2007-02-17 12:47:26.996577
15	17539	349	2	2987	6.99	2007-02-20 07:24:16.996577
16	17540	349	1	3067	8.99	2007-02-20 12:27:47.996577