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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;
```

Data Output | Explain | Messages | Notifications

	customer_id [PK] integer	store_id smallint	first_name character varying (45)	last_name character varying (45)	email character varying (50)	address_id smallint	activebool boolean
7	6	2	Jennifer	Davis	jennifer.davis@sakilacustom...	10	true
8	7	1	Maria	Miller	maria.miller@sakilacustome...	11	true
9	8	2	Susan	Wilson	susan.wilson@sakilacustom...	12	true
10	9	2	Margaret	Moore	margaret.moore@sakilacust...	13	true
11	10	1	Dorothy	Taylor	dorothy.taylor@sakilacusto...	14	true
12	11	2	Lisa	Anderson	lisa.anderson@sakilacusto...	15	true
13	12	1	Nancy	Thomas	nancy.thomas@sakilacusto...	16	true
14	13	2	Karen	Jackson	karen.jackson@sakilacusto...	17	true
15	14	2	Betty	White	betty.white@sakilacustomer....	18	true
16	15	1	Helen	Harris	helen.harris@sakilacustome...	19	true
17	16	2	Sandra	Martin	sandra.martin@sakilacusto...	20	true
18	17	1	Donna	Thompson	donna.thompson@sakilacus...	21	true
19	18	2	Carol	Garcia	carol.garcia@sakilacustome...	22	true

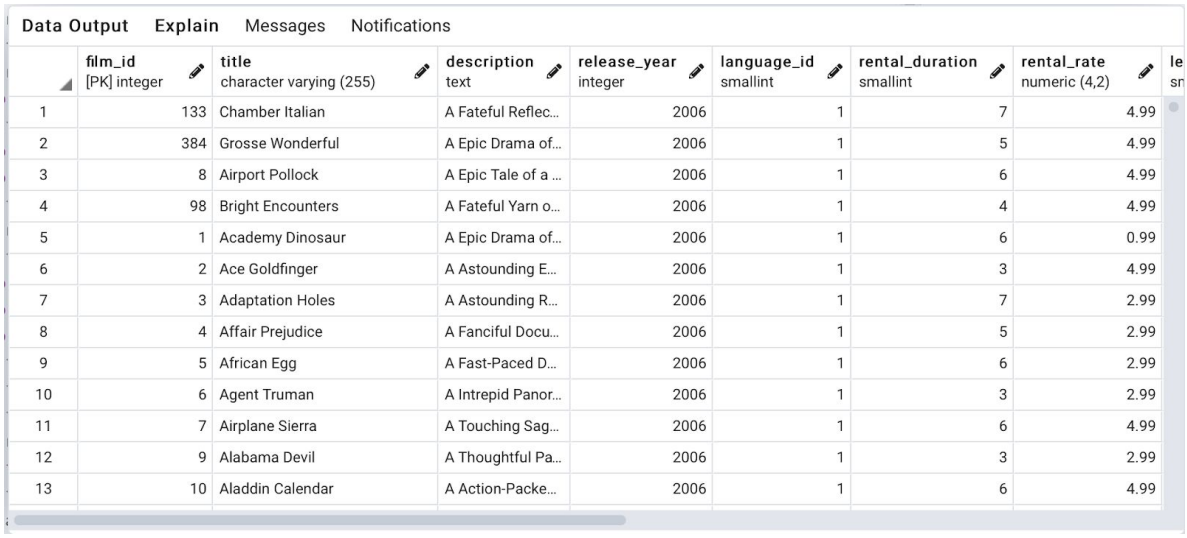
2. Write a query to select first name, last name, and email from the customer table.

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

Data Output | Explain | Messages | Notifications

	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...
3	Patricia	Johnson	patricia.johnson@sakilacust...
4	Linda	Williams	linda.williams@sakilacusto...
5	Barbara	Jones	barbara.jones@sakilacusto...
6	Elizabeth	Brown	elizabeth.brown@sakilacust...
7	Jennifer	Davis	jennifer.davis@sakilacustom...
8	Maria	Miller	maria.miller@sakilacustome...
9	Susan	Wilson	susan.wilson@sakilacustom...
10	Margaret	Moore	margaret.moore@sakilacust...
11	Dorothy	Taylor	dorothy.taylor@sakilacusto...
12	Lisa	Anderson	lisa.anderson@sakilacusto...
13	Nancy	Thomas	nancy.thomas@sakilacusto...
14	Karen	Jackson	karen.jackson@sakilacusto...

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



Data Output | Explain | Messages | Notifications

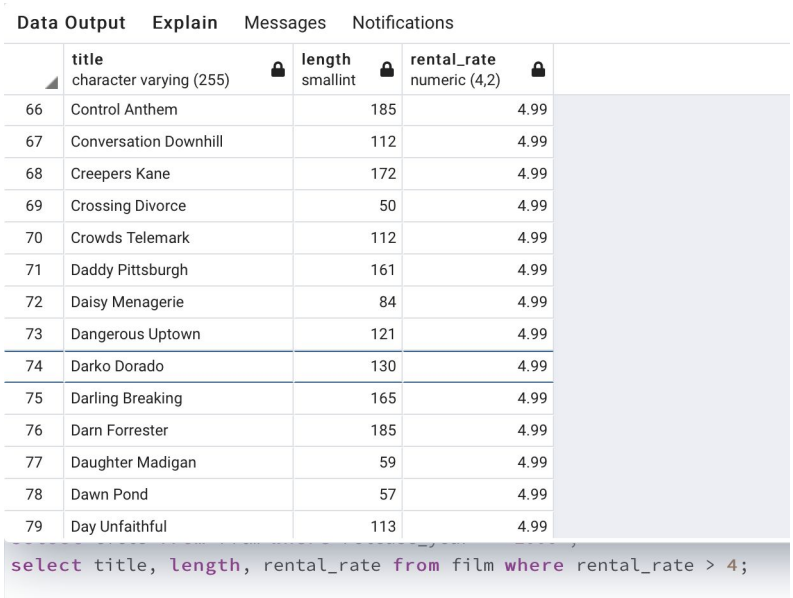
	film_id [PK] integer	title character varying (255)	description text	release_year integer	language_id smallint	rental_duration smallint	rental_rate numeric (4,2)	le sr
1	133	Chamber Italian	A Fateful Reflec...	2006	1	7	4.99	
2	384	Grosse Wonderful	A Epic Drama of...	2006	1	5	4.99	
3	8	Airport Pollock	A Epic Tale of a ...	2006	1	6	4.99	
4	98	Bright Encounters	A Fateful Yarn o...	2006	1	4	4.99	
5	1	Academy Dinosaur	A Epic Drama of...	2006	1	6	0.99	
6	2	Ace Goldfinger	A Astounding E...	2006	1	3	4.99	
7	3	Adaptation Holes	A Astounding R...	2006	1	7	2.99	
8	4	Affair Prejudice	A Fanciful Docu...	2006	1	5	2.99	
9	5	African Egg	A Fast-Paced D...	2006	1	6	2.99	
10	6	Agent Truman	A Intrepid Panor...	2006	1	3	2.99	
11	7	Airplane Sierra	A Touching Sag...	2006	1	6	4.99	
12	9	Alabama Devil	A Thoughtful Pa...	2006	1	3	2.99	
13	10	Aladdin Calendar	A Action-Packe...	2006	1	6	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
2006

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



Data Output | Explain | Messages | Notifications

	title character varying (255)	length smallint	rental_rate numeric (4,2)
66	Control Anthem	185	4.99
67	Conversation Downhill	112	4.99
68	Creepers Kane	172	4.99
69	Crossing Divorce	50	4.99
70	Crowds Telemark	112	4.99
71	Daddy Pittsburgh	161	4.99
72	Daisy Menagerie	84	4.99
73	Dangerous Uptown	121	4.99
74	Darko Dorado	130	4.99
75	Darling Breaking	165	4.99
76	Darn Forrester	185	4.99
77	Daughter Madigan	59	4.99
78	Dawn Pond	57	4.99
79	Day Unfaithful	113	4.99

```
select title, length, rental_rate from film where rental_rate > 4;
```

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@sakilacusto...

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

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

Data Output

	phone character varying (20)
1	419009857119

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;
```

Data Output

	customer_id [PK] integer	store_id smallint	first_name character varying (45)	last_name character varying (45)
10	163	1	Cathy	Spencer
11	166	1	Lynn	Payne
12	168	1	Regina	Berry
13	170	1	Beatrice	Arnold
14	172	1	Bernice	Willis
15	173	1	Audrey	Ray
16	175	1	Annette	Olson
17	176	1	June	Carroll
18	179	1	Dana	Hart
19	182	1	Renee	Lane
20	184	1	Vivian	Ruiz

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

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

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)
1	17504	341	1	1778	1.9
2	17512	343	2	1547	4.9
3	17520	344	2	1475	4.9
4	17523	345	1	1457	4.9
5	17525	345	2	2766	4.9
6	17531	347	1	3026	4.9
7	17549	352	1	1649	4.9
8	17550	352	1	1678	4.9
9	17551	352	1	1780	4.9
10	17552	352	2	3331	4.9
11	17557	354	1	2275	4.9

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 order by amount;
```

Data Output

	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount ,2)	payr time
1	31982	516	1	12130	5.98	2007
2	32023	42	1	13351	5.98	2007
3	32000	576	2	11942	5.98	2007
4	31924	284	1	12064	5.98	2007
5	31995	560	2	12116	5.98	2007
6	32078	208	1	13719	5.98	2007
7	32084	216	1	12970	5.98	2007
8	22483	582	1	15090	5.99	2007
9	30262	113	2	3657	5.99	2007
10	26421	376	1	4554	5.99	2007

Editable column