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SQL SELECT, WHERE, DISTINCT practice

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

```
14   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	activeboo boolean
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	530	true
2	1	1	Mary	Smith	mary.smith@sakilacustomer.org	5	true
3	2	1	Patricia	Johnson	patricia.johnson@sakilacustomer.org	6	true
4	3	1	Linda	Williams	linda.williams@sakilacustomer.org	7	true
5	4	2	Barbara	Jones	barbara.jones@sakilacustomer.org	8	true
6	5	1	Elizabeth	Brown	elizabeth.brown@sakilacustomer.org	9	true
7	6	2	Jennifer	Davis	jennifer.davis@sakilacustomer.org	10	true

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

```
17   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.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

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

```
18   SELECT * FROM film;
```

Data Output   Explain   Messages   Notifications

	film_id [PK] integer	title character varying (255)	description text
1	133	Chamber Italian	A Fateful Reflection of a Moose And a Husband who must Overcome a Monkey in Nigeria
2	384	Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia
3	8	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India
4	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
5	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
6	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China

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

```
20   SELECT release_year from film;
```

Data Output   Explain   Messages   Notifications

release_year integer
1	2006
2	2006
3	2006
4	2006
5	2006
6	2006

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

```
22   SELECT rental_rate from film;
```

Data Output   Explain   Messages   Notifications

rental_rate numeric (4,2)
1	4.99
2	4.99
3	4.99
4	4.99
5	0.99

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

```
24   SELECT email FROM customer
25   WHERE first_name='Nancy'
26   AND last_name='Thomas';
```

Data Output   Explain   Messages   Notifica

email character varying (50)
1	nancy.thomas@sakilacustomer.org

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

```
28   SELECT phone FROM address
29   WHERE  address='259 Ipoh Drive';
```

Data Output   Explain   Messages   Notifications

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.

```
31  SELECT * FROM customer
32  WHERE store_id='1'
33  AND address_id > 150;
```

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
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	530
2	148	1	Eleanor	Hunt	eleanor.hunt@sakilacustomer.org	152
3	149	1	Valerie	Black	valerie.black@sakilacustomer.org	153
4	152	1	Alicia	Mills	alicia.mills@sakilacustomer.org	156
5	155	1	Gail	Knight	gail.knight@sakilacustomer.org	159

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

```
35  SELECT * FROM payment
36  WHERE amount = '4.99'
37  OR amount ='1.99';
```

Data Output   Explain   Messages   Notifications

	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

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

```
39  SELECT * FROM payment
40  WHERE amount > 5;
```

Data Output   Explain   Messages   Notifications

	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