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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	activebool boolean	create_date date
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	530	true	2006-02-14
2	1	1	Mary	Smith	mary.smith@sakilacustomer.org	5	true	2006-02-14
3	2	1	Patricia	Johnson	patricia.johnson@sakilacustomer.org	6	true	2006-02-14
4	3	1	Linda	Williams	linda.williams@sakilacustomer.org	7	true	2006-02-14
5	4	2	Barbara	Jones	barbara.jones@sakilacustomer.org	8	true	2006-02-14
6	5	1	Elizabeth	Brown	elizabeth.brown@sakilacustomer.org	9	true	2006-02-14
7	6	2	Jennifer	Davis	jennifer.davis@sakilacustomer.org	10	true	2006-02-14
8	7	1	Maria	Miller	maria.miller@sakilacustomer.org	11	true	2006-02-14

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

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)	length smallint	replacement_cost numeric (5,2)	rating mpaa_rating
1	133	Chamber Italian	A Fateful R...	2006	1	7	4.99	117	14.99	NC-17
2	384	Grosse Wonderful	A Epic Dra...	2006	1	5	4.99	49	19.99	R
3	8	Airport Pollock	A Epic Tale ...	2006	1	6	4.99	54	15.99	R
4	98	Bright Encounters	A Fateful Y...	2006	1	4	4.99	73	12.99	PG-13
5	1	Academy Dinosaur	A Epic Dra...	2006	1	6	0.99	86	20.99	PG
6	2	Ace Goldfinger	A Astoundi...	2006	1	3	4.99	48	12.99	G
7	3	Adaptation Holes	A Astoundi...	2006	1	7	2.99	50	18.99	NC-17
8	4	Affair Prejudice	A Fanciful ...	2006	1	5	2.99	117	26.99	G

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@sakilacustomer.org

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'

	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

	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	create_date date	last_update timestamp without ti
1	524	1	Jared	Ely	jared.ely@sakilacusto...	530	true	2006-02-14	2013-05-26 14:49:45
2	148	1	Eleanor	Hunt	eleanor.hunt@sakilac...	152	true	2006-02-14	2013-05-26 14:49:45
3	149	1	Valerie	Black	valerie.black@sakilac...	153	true	2006-02-14	2013-05-26 14:49:45
4	152	1	Alicia	Mills	alicia.mills@sakilacu...	156	true	2006-02-14	2013-05-26 14:49:45
5	155	1	Gail	Knight	gail.knight@sakilacus...	159	true	2006-02-14	2013-05-26 14:49:45
6	156	1	Bertha	Ferguson	bertha.ferguson@sak...	160	true	2006-02-14	2013-05-26 14:49:45
7	158	1	Veronica	Stone	veronica.stone@sakil...	162	true	2006-02-14	2013-05-26 14:49:45
8	159	1	Jill	Hawkins	jill.hawkins@sakilacu...	163	true	2006-02-14	2013-05-26 14:49:45

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

select * from payment where amount in (4.99, 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

10. Write a query to return a list of transactions 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