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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	last_update timestamp without time zone	active integer
1	524	1	Jared	Ely	jared.ely@sakilacusto...	530	true	2006-02-14	2013-05-26 14:49:45.738	1
2	1	1	Mary	Smith	mary.smith@sakilacu...	5	true	2006-02-14	2013-05-26 14:49:45.738	1
3	2	1	Patricia	Johnson	patricia.johnson@sak...	6	true	2006-02-14	2013-05-26 14:49:45.738	1
4	3	1	Linda	Williams	linda.williams@sakila...	7	true	2006-02-14	2013-05-26 14:49:45.738	1
5	4	2	Barbara	Jones	barbara.jones@sakila...	8	true	2006-02-14	2013-05-26 14:49:45.738	1
6	5	1	Elizabeth	Brown	elizabeth.brown@saki...	9	true	2006-02-14	2013-05-26 14:49:45.738	1
7	6	2	Jennifer	Davis	jennifer.davis@sakila...	10	true	2006-02-14	2013-05-26 14:49:45.738	1
8	7	1	Maria	Miller	maria.miller@sakilac...	11	true	2006-02-14	2013-05-26 14:49:45.738	1
9	8	2	Susan	Wilson	susan.wilson@sakila...	12	true	2006-02-14	2013-05-26 14:49:45.738	1
10	9	2	Margaret	Moore	margaret.moore@sak...	13	true	2006-02-14	2013-05-26 14:49:45.738	1
11	10	1	Dorothy	Taylor	dorothy.taylor@sakila...	14	true	2006-02-14	2013-05-26 14:49:45.738	1
12	11	2	Lisa	Anderson	lisa.anderson@sakila...	15	true	2006-02-14	2013-05-26 14:49:45.738	1
13	12	1	Nancy	Thomas	nancy.thomas@sakila...	16	true	2006-02-14	2013-05-26 14:49:45.738	1
14	13	2	Karen	Jackson	karen.jackson@sakila...	17	true	2006-02-14	2013-05-26 14:49:45.738	1
15	14	2	Betty	White	betty.white@sakilacu...	18	true	2006-02-14	2013-05-26 14:49:45.738	1

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

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

Select * from film;

Data output 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)	length smallint	replacement_cost numeric (5,2)	
1	133	Chamber Italian	A Fateful R...	2006	1	7	4.99	117	14.9	
2	384	Grosse Wonderful	A Epic Dra...	2006	1	5	4.99	49	19.9	
3	8	Airport Pollock	A Epic Tale ...	2006	1	6	4.99	54	15.9	
4	98	Bright Encounters	A Fateful Y...	2006	1	4	4.99	73	12.9	
5	1	Academy Dinosaur	A Epic Dra...	2006	1	6	0.99	86	20.9	
6	2	Ace Goldfinger	A Astoundi...	2006	1	3	4.99	48	12.9	
7	3	Adaptation Holes	A Astoundi...	2006	1	7	2.99	50	18.9	
8	4	Affair Prejudice	A Fanciful ...	2006	1	5	2.99	117	26.9	
9	5	African Egg	A Fast-Pac...	2006	1	6	2.99	130	22.9	
10	6	Agent Truman	A Intrepid ...	2006	1	3	2.99	169	17.9	
11	7	Airplane Sierra	A Touching...	2006	1	6	4.99	62	28.9	
12	9	Alabama Devil	A Thoughtf...	2006	1	3	2.99	114	21.9	
13	10	Aladdin Calendar	A Action-P...	2006	1	6	4.99	63	24.9	
14	11	Alamo Videotape	A Boring E...	2006	1	6	0.99	126	16.9	
15	12	Alaska Phantom	A Fanciful ...	2006	1	6	0.99	136	22.9	
16	213	Date Speed	A Touching...	2006	1	4	0.99	104	19.9	
17	13	Ali Forever	A Action-P...	2006	1	4	4.99	150	21.9	
18	14	Alice Fantasia	A Emotiona...	2006	1	6	0.99	94	23.9	

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 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_c date
1	524	1	Jared	Ely	jared.ely@sakilacusto...	530	true	2006-02
2	148	1	Eleanor	Hunt	eleanor.hunt@sakilac...	152	true	2006-02
3	149	1	Valerie	Black	valerie.black@sakilac...	153	true	2006-02
4	152	1	Alicia	Mills	alicia.mills@sakilacu...	156	true	2006-02
5	155	1	Gail	Knight	gail.knight@sakilacus...	159	true	2006-02
6	156	1	Bertha	Ferguson	bertha.ferguson@sak...	160	true	2006-02
7	158	1	Veronica	Stone	veronica.stone@sakil...	162	true	2006-02
8	159	1	Jill	Hawkins	jill.hawkins@sakilacu...	163	true	2006-02
9	161	1	Geraldine	Perkins	geraldine.perkins@sa...	165	true	2006-02
10	163	1	Cathy	Spencer	cathy.spencer@sakila...	167	true	2006-02
11	166	1	Lynn	Payne	lynn.payne@sakilacu...	170	true	2006-02
12	168	1	Regina	Berry	regina.berry@sakilac...	172	true	2006-02
13	170	1	Beatrice	Arnold	beatrice.arnold@sakil...	174	true	2006-02
14	172	1	Bernice	Willis	bernice.willis@sakila...	176	true	2006-02
15	173	1	Audrey	Ray	audrey.ray@sakilacus...	177	true	2006-02
16	175	1	Annette	Olson	annette.olson@sakila...	179	true	2006-02
17	176	1	June	Carroll	june.carroll@sakilacu...	180	true	2006-02
18	179	1	Dana	Hart	dana.hart@sakilacust...	183	true	2006-02

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

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

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select * from payment where amount > 5;
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	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