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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	create_date date	last_update timestamp without time zone	active integer
	524	1 Jared	Ely	jared.ely@sakilacustomer.org	530	true	2006-02-14	2013-05-26 14:49:45.738	1
	1	1 Mary	Smith	mary.smith@sakilacustomer.org	5	true	2006-02-14	2013-05-26 14:49:45.738	1
	2	1 Patricia	Johnson	patricia.johnson@sakilacustomer.org	6	true	2006-02-14	2013-05-26 14:49:45.738	1
	3	1 Linda	Williams	linda.williams@sakilacustomer.org	7	true	2006-02-14	2013-05-26 14:49:45.738	1
	4	2 Barbara	Jones	barbara.jones@sakilacustomer.org	8	true	2006-02-14	2013-05-26 14:49:45.738	1
	5	1 Elizabeth	Brown	elizabeth.brown@sakilacustomer.org	9	true	2006-02-14	2013-05-26 14:49:45.738	1
	6	2 Jennifer	Davis	jennifer.davis@sakilacustomer.org	10	true	2006-02-14	2013-05-26 14:49:45.738	1
	7	1 Maria	Miller	maria.miller@sakilacustomer.org	11	true	2006-02-14	2013-05-26 14:49:45.738	1
	8	2 Susan	Wilson	susan.wilson@sakilacustomer.org	12	true	2006-02-14	2013-05-26 14:49:45.738	1
	9	2 Margaret	Moore	margaret.moore@sakilacustomer.org	13	true	2006-02-14	2013-05-26 14:49:45.738	1
	10	1 Dorothy	Taylor	dorothy.taylor@sakilacustomer.org	14	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

Data Output		Explain	Messages	Notifications
	<div>first_name</div> <div>character varying (45)</div>	<div>last_name</div> <div>character varying (45)</div>	<div>email</div> <div>character varying (50)</div>	
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	

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

SELECT * FROM film

Explain Messages Notifications				
title	description	release_year	language_id	rental_duration
character varying (255)	text	integer	smallint	smallint
Chamber Italian	A Fateful Reflection of a Moose And a Husband who must Overcome a Monkey in Nigeria	2006	1	
Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia	2006	1	
Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India	2006	1	
Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat	2006	1	
Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies	2006	1	
Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China	2006	1	
Adaptation Holes	A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Baloon Factory	2006	1	
Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank	2006	1	
African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The Gulf of Mexico	2006	1	
Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China	2006	1	
Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat	2006	1	

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

SELECT DISTINCT release_year FROM film

Data Output Explain	
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

Data Output Explain	
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 email LIKE '%nancy%';

	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 LIKE '%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 time zone
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	530	true	2006-02-14	2013-05-26 14:49:45.738
2	148	1	Eleanor	Hunt	eleanor.hunt@sakilacustomer.org	152	true	2006-02-14	2013-05-26 14:49:45.738
3	149	1	Valerie	Black	valerie.black@sakilacustomer.org	153	true	2006-02-14	2013-05-26 14:49:45.738
4	152	1	Alicia	Mills	alicia.mills@sakilacustomer.org	156	true	2006-02-14	2013-05-26 14:49:45.738
5	155	1	Gail	Knight	gail.knight@sakilacustomer.org	159	true	2006-02-14	2013-05-26 14:49:45.738
6	156	1	Bertha	Ferguson	bertha.ferguson@sakilacustomer.org	160	true	2006-02-14	2013-05-26 14:49:45.738
7	158	1	Veronica	Stone	veronica.stone@sakilacustomer.org	162	true	2006-02-14	2013-05-26 14:49:45.738
8	159	1	Jill	Hawkins	jill.hawkins@sakilacustomer.org	163	true	2006-02-14	2013-05-26 14:49:45.738
9	161	1	Geraldine	Perkins	geraldine.perkins@sakilacustomer.org	165	true	2006-02-14	2013-05-26 14:49:45.738
10	163	1	Cathy	Spencer	cathy.spencer@sakilacustomer.org	167	true	2006-02-14	2013-05-26 14:49:45.738

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

SELECT amount FROM payment

WHERE amount = 4.99 OR amount = 1.99;

Data Output		Explain	Messages	N
	amount numeric (5,2)			
1	1.99			
2	4.99			
3	4.99			
4	4.99			
5	4.99			
6	4.99			
7	4.99			

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

SELECT amount, payment_date FROM payment

WHERE amount > 5;

Data Output		Explain	Messages	Notifications
	amount numeric (5,2)		payment_date timestamp without time zone	
1	7.99		2007-02-15 22:25:46.996577	
2	7.99		2007-02-16 22:41:45.996577	
3	7.99		2007-02-20 17:31:48.996577	
4	5.99		2007-02-21 12:33:49.996577	
5	5.99		2007-02-17 23:58:17.996577	
6	5.99		2007-02-20 02:11:44.996577	
7	6.99		2007-02-16 01:15:33.996577	
8	6.99		2007-02-18 18:26:38.996577	