SQL SELECT, WHERE, DISTINCT practice

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

SELECT * FROM customer;

| Query | Query History | Data output | 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
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
16	15	1	Helen	Harris	helen.harris@sakilacu...	19	true	2006-02-14	2013-05-26 14:49:45.738	1
17	16	2	Sandra	Martin	sandra.martin@sakila...	20	true	2006-02-14	2013-05-26 14:49:45.738	0
18	17	1	Donna	Thompson	donna.thompson@sa...	21	true	2006-02-14	2013-05-26 14:49:45.738	1
19	18	2	Carol	Garcia	carol.garcia@sakilac...	22	true	2006-02-14	2013-05-26 14:49:45.738	1
20	19	1	Ruth	Martinez	ruth.martinez@sakila...	23	true	2006-02-14	2013-05-26 14:49:45.738	1
21	20	2	Sharon	Robinson	sharon.robinson@sak...	24	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;

| Query | Query History | Data output | 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
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
11	Dorothy	Taylor	dorothy.taylor@sakilacustomer.org
12	Lisa	Anderson	lisa.anderson@sakilacustomer.org
13	Nancy	Thomas	nancy.thomas@sakilacustomer.org
14	Karen	Jackson	karen.jackson@sakilacustomer.org
15	Betty	White	betty.white@sakilacustomer.org
16	Helen	Harris	helen.harris@sakilacustomer.org
17	Sandra	Martin	sandra.martin@sakilacustomer.org
18	Donna	Thompson	donna.thompson@sakilacustomer.org
19	Carol	Garcia	carol.garcia@sakilacustomer.org
20	Ruth	Martinez	ruth.martinez@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	last_update timestamp without ti
1	133	Chamber Italian	A Fateful R...	2006	1	7	4.99	117	14.99	NC-17	2013-05-26 14:50:58
2	384	Grosse Wonderful	A Epic Dra...	2006	1	5	4.99	49	19.99	R	2013-05-26 14:50:58
3	8	Airport Pollock	A Epic Tale ...	2006	1	6	4.99	54	15.99	R	2013-05-26 14:50:58
4	98	Bright Encounters	A Fateful Y...	2006	1	4	4.99	73	12.99	PG-13	2013-05-26 14:50:58
5	1	Academy Dinosaur	A Epic Dra...	2006	1	6	0.99	86	20.99	PG	2013-05-26 14:50:58
6	2	Ace Goldfinger	A Astoundi...	2006	1	3	4.99	48	12.99	G	2013-05-26 14:50:58
7	3	Adaptation Holes	A Astoundi...	2006	1	7	2.99	50	18.99	NC-17	2013-05-26 14:50:58
8	4	Affair Prejudice	A Fanciful ...	2006	1	5	2.99	117	26.99	G	2013-05-26 14:50:58
9	5	African Egg	A Fast-Pac...	2006	1	6	2.99	130	22.99	G	2013-05-26 14:50:58
10	6	Agent Truman	A Intrepid ...	2006	1	3	2.99	169	17.99	PG	2013-05-26 14:50:58
11	7	Airplane Sierra	A Touching...	2006	1	6	4.99	62	28.99	PG-13	2013-05-26 14:50:58
12	9	Alabama Devil	A Thoughtf...	2006	1	3	2.99	114	21.99	PG-13	2013-05-26 14:50:58
13	10	Aladdin Calendar	A Action-P...	2006	1	6	4.99	63	24.99	NC-17	2013-05-26 14:50:58
14	11	Alamo Videotape	A Boring E...	2006	1	6	0.99	126	16.99	G	2013-05-26 14:50:58
15	12	Alaska Phantom	A Fanciful ...	2006	1	6	0.99	136	22.99	PG	2013-05-26 14:50:58
16	213	Date Speed	A Touching...	2006	1	4	0.99	104	19.99	R	2013-05-26 14:50:58
17	13	Ali Forever	A Action-P...	2006	1	4	4.99	150	21.99	PG	2013-05-26 14:50:58
18	14	Alice Fantasia	A Emotiona...	2006	1	6	0.99	94	23.99	NC-17	2013-05-26 14:50:58

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

SELECT DISTINCT * FROM film;

	film_id [PK] integer	title character varying (255)	description text	release_year integer	lan sn
1	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies	2006	
2	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China	2006	
3	3	Adaptation Holes	A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Baloon Factory	2006	
4	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank	2006	
5	5	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	
6	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China	2006	
7	7	Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat	2006	
8	8	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India	2006	
9	9	Alabama Devil	A Thoughtful Panorama of a Database Administrator And a Mad Scientist who must Outgun a Mad Scientist in A Jet Boat	2006	
10	10	Aladdin Calendar	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China	2006	
11	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention	2006	
12	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia	2006	
13	13	Ali Forever	A Action-Packed Drama of a Dentist And a Crocodile who must Battle a Feminist in The Canadian Rockies	2006	
14	14	Alice Fantasia	A Emotional Drama of a A Shark And a Database Administrator who must Vanquish a Pioneer in Soviet Georgia	2006	
15	15	Alien Center	A Brilliant Drama of a Cat And a Mad Scientist who must Battle a Feminist in A MySQL Convention	2006	
16	16	Alley Evolution	A Fast-Paced Drama of a Robot And a Composer who must Battle a Astronaut in New Orleans	2006	
17	17	Alone Trip	A Fast-Paced Character Study of a Composer And a Dog who must Outgun a Boat in An Abandoned Fun House	2006	
18	18	Alter Victory	A Thoughtful Drama of a Composer And a Feminist who must Meet a Secret Agent in The Canadian Rockies	2006	
19	19	Amadeus Holy	A Emotional Display of a Pioneer And a Technical Writer who must Battle a Man in A Baloon	2006	
20	20	Amelie Hellfighters	A Boring Drama of a Woman And a Squirrel who must Conquer a Student in A Baloon	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 first_name, last_name, email FROM customer WHERE first_name = 'Nancy';

	first_name character varying (45)	last_name character varying (45)	email character varying (50)
1	Nancy	Thomas	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, address, address2 FROM address WHERE address = '259 Ipoh Drive';

	phone character varying (20)	address character varying (50)	address2 character varying (50)
1	419009857119	259 Ipoh Drive	

8. Write a query from the customer table, where store id is 1 and address id is greater than 150.

SELECT store_id, address_id FROM customer WHERE store_id = 1 AND address_id >= 150;

	store_id smallint	address_id smallint
1	1	530
2	1	150
3	1	152
4	1	153
5	1	156
6	1	159
7	1	160
8	1	162
9	1	163
10	1	165
11	1	167
12	1	170
13	1	172
14	1	174
15	1	176
16	1	177

Query   Query History   Data outp

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

**SELECT amount, payment_id FROM payment WHERE amount = 4.99 or amount = 1.99
ORDER BY amount;**

Query   Query History   Data output

	amount numeric (5,2)	payment_id [PK] integer
1	1.99	28134
2	1.99	25195
3	1.99	20864
4	1.99	25214
5	1.99	29995
6	1.99	22917
7	1.99	23981
8	1.99	18351
9	1.99	26512
10	1.99	30009
11	1.99	18931
12	1.99	18707
13	1.99	19558

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;

Query   Query History   Data output   Messages

	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
9	8.99	2007-02-20 07:03:29.996577
10	5.99	2007-02-17 09:35:32.996577
11	8.99	2007-02-16 12:40:18.996577
12	8.99	2007-02-20 14:33:08.996577
13	7.99	2007-02-21 07:33:16.996577
14	8.99	2007-02-17 12:47:26.996577
15	6.99	2007-02-20 07:24:16.996577
16	8.99	2007-02-20 12:27:47.996577