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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;

Query Editor		Query History		Scratch Pad	
1	SELECT *				
2	FROM customer				

customer_id	store_id	first_name	last_name	email	address_id	activebool	create_date	last_update
[PK] integer	smallint	character varying (45)	character varying (45)	character varying (50)	smallint	boolean	date	timestamp without time zone
524	1	Jared	Ely	jared.ely@sakilacustomer.org	530	true	2006-02-14	2013-05-26 14:49:45.738
1	1	Mary	Smith	mary.smith@sakilacustomer.org	5	true	2006-02-14	2013-05-26 14:49:45.738
2	1	Patricia	Johnson	patricia.johnson@sakilacustomer.org	6	true	2006-02-14	2013-05-26 14:49:45.738
3	1	Linda	Williams	linda.williams@sakilacustomer.org	7	true	2006-02-14	2013-05-26 14:49:45.738
4	2	Barbara	Jones	barbara.jones@sakilacustomer.org	8	true	2006-02-14	2013-05-26 14:49:45.738
5	1	Elizabeth	Brown	elizabeth.brown@sakilacustomer.org	9	true	2006-02-14	2013-05-26 14:49:45.738
6	2	Jennifer	Davis	jennifer.davis@sakilacustomer.org	10	true	2006-02-14	2013-05-26 14:49:45.738
7	1	Maria	Miller	maria.miller@sakilacustomer.org	11	true	2006-02-14	2013-05-26 14:49:45.738
8	2	Susan	Wilson	susan.wilson@sakilacustomer.org	12	true	2006-02-14	2013-05-26 14:49:45.738
9	2	Margaret	Moore	margaret.moore@sakilacustomer.org	13	true	2006-02-14	2013-05-26 14:49:45.738
10	1	Dorothy	Taylor	dorothy.taylor@sakilacustomer.org	14	true	2006-02-14	2013-05-26 14:49:45.738
11	2	Lisa	Anderson	lisa.anderson@sakilacustomer.org	15	true	2006-02-14	2013-05-26 14:49:45.738
12	1	Nancy	Thomas	nancy.thomas@sakilacustomer.org	16	true	2006-02-14	2013-05-26 14:49:45.738
13	2	Karen	Jackson	karen.jackson@sakilacustomer.org	17	true	2006-02-14	2013-05-26 14:49:45.738
14	2	Betty	White	betty.white@sakilacustomer.org	18	true	2006-02-14	2013-05-26 14:49:45.738
15	1	Helen	Harris	helen.harris@sakilacustomer.org	19	true	2006-02-14	2013-05-26 14:49:45.738

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

Query Editor		Query History		Scratch Pad	
1	SELECT first_name, last_name, email				
2	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
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

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

Query Editor Query History

```
1 SELECT *
2 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_ni
1	133	Chamber Italian	A Fateful Reflection of a Moose A...	2006	1	7	4.99	117	14.99	NC-17
2	384	Grosse Wonderful	A Epic Drama of a Cat And a Expl...	2006	1	5	4.99	49	19.99	R
3	8	Airport Pollock	A Epic Tale of a Moose And a Girl ...	2006	1	6	4.99	54	15.99	R
4	98	Bright Encounters	A Fateful Yarn of a Lumberjack A...	2006	1	4	4.99	73	12.99	PG-13
5	1	Academy Dinosaur	A Epic Drama of a Feminist And a...	2006	1	6	0.99	86	20.99	PG
6	2	Ace Goldfinger	A Astounding Epistle of a Databa...	2006	1	3	4.99	48	12.99	G
7	3	Adaptation Holes	A Astounding Reflection of a Lum...	2006	1	7	2.99	50	18.99	NC-17
8	4	Affair Prejudice	A Fanciful Documentary of a Frie...	2006	1	5	2.99	117	26.99	G
9	5	African Egg	A Fast-Paced Documentary of a P...	2006	1	6	2.99	130	22.99	G
10	6	Agent Truman	A Intrepid Panorama of a Robot A...	2006	1	3	2.99	169	17.99	PG
11	7	Airplane Sierra	A Touching Saga of a Hunter And ...	2006	1	6	4.99	62	28.99	PG-13
12	9	Alabama Devil	A Thoughtful Panorama of a Data...	2006	1	3	2.99	114	21.99	PG-13
13	10	Aladdin Calendar	A Action-Packed Tale of a Man A...	2006	1	6	4.99	63	24.99	NC-17
14	11	Alamo Videotape	A Boring Epistle of a Butler And a ...	2006	1	6	0.99	126	16.99	G
15	12	Alaska Phantom	A Fanciful Saga of a Hunter And a...	2006	1	6	0.99	136	22.99	PG

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

Query Editor Query History

```
1 SELECT DISTINCT release_year
2 FROM film
```

	release_year integer
1	2006
2	2006
3	2006
4	2006
5	2006
6	2006
7	2006
8	2006
9	2006
10	2006
11	2006
12	2006
13	2006
14	2006
15	2006

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

SELECT DISTINCT rental_rate from film

Query Editor Query History

```
1 SELECT DISTINCT rental_rate
2 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*FROM customer WHERE first_name = 'Nancy' AND last_name = 'Thomas'

Query Editor Query History

```
1 SELECT first_name, last_name, email
2 FROM customer
3 WHERE first_name = 'Nancy' AND last_name = 'Thomas'
```

	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	12	1	Nancy	Thomas	nancy.thomas@sakilacustomer.org	16	true	2006-02-14	2013-05-26 14:49:45.738	1

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

SELECT*FROM address where address='259 Ipoh Drive'

Query Editor Query History

```
1 SELECT address, phone
2 FROM address
3 WHERE address = '259 Ipoh Drive'
```

	address_id [PK] integer	address character varying (50)	address2 character varying (50)	district character varying (20)	city_id smallint	postal_code character varying (10)	phone character varying (20)	last_update timestamp without time zone
1	432	259 Ipoh Drive		So Paulo	189	64964	419009857119	2006-02-15 09:45:30

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

Query Editor Query History

```

1 SELECT *
2 FROM customer
3 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	active integer
1	524	1	Jared	Ely	jared.ely@sakilacustomer.org	530	true	2006-02-14	2013-05-26 14:49:45.738	1
2	148	1	Eleanor	Hunt	eleanor.hunt@sakilacustomer.org	152	true	2006-02-14	2013-05-26 14:49:45.738	1
3	149	1	Valerie	Black	valerie.black@sakilacustomer.org	153	true	2006-02-14	2013-05-26 14:49:45.738	1
4	152	1	Alicia	Mills	alicia.mills@sakilacustomer.org	156	true	2006-02-14	2013-05-26 14:49:45.738	1
5	155	1	Gail	Knight	gail.knight@sakilacustomer.org	159	true	2006-02-14	2013-05-26 14:49:45.738	1
6	156	1	Bertha	Ferguson	bertha.ferguson@sakilacustomer.org	160	true	2006-02-14	2013-05-26 14:49:45.738	1
7	158	1	Veronica	Stone	veronica.stone@sakilacustomer.org	162	true	2006-02-14	2013-05-26 14:49:45.738	1
8	159	1	Jill	Hawkins	jill.hawkins@sakilacustomer.org	163	true	2006-02-14	2013-05-26 14:49:45.738	1
9	161	1	Geraldine	Perkins	geraldine.perkins@sakilacustomer.org	165	true	2006-02-14	2013-05-26 14:49:45.738	1
10	163	1	Cathy	Spencer	cathy.spencer@sakilacustomer.org	167	true	2006-02-14	2013-05-26 14:49:45.738	1
11	166	1	Lynn	Payne	lynn.payne@sakilacustomer.org	170	true	2006-02-14	2013-05-26 14:49:45.738	1
12	168	1	Regina	Berry	regina.berry@sakilacustomer.org	172	true	2006-02-14	2013-05-26 14:49:45.738	1
13	170	1	Beatrice	Arnold	beatrice.arnold@sakilacustomer.org	174	true	2006-02-14	2013-05-26 14:49:45.738	1
14	172	1	Bernice	Willis	bernice.willis@sakilacustomer.org	176	true	2006-02-14	2013-05-26 14:49:45.738	1
15	173	1	Audrey	Ray	audrey.ray@sakilacustomer.org	177	true	2006-02-14	2013-05-26 14:49:45.738	1

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

SELECT*FROM payment WHERE amount=1.99 OR amount= 4.99

Query Editor Query History

```

1 SELECT *
2 FROM payment
3 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

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
```

```
1 SELECT *
2 FROM payment
3 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
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
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