Name: _____Siming Deng_____

SQL SELECT, WHERE, DISTINCT practice

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

Query Editor | Query History

```
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
11	2	Lisa	Anderson	lisa.anderson@sakilacustomer.org	15	true	2006-02-14	2013-05-26 14:49:45.738	1
12	1	Nancy	Thomas	nancy.thomas@sakilacustomer.org	16	true	2006-02-14	2013-05-26 14:49:45.738	1
13	2	Karen	Jackson	karen.jackson@sakilacustomer.org	17	true	2006-02-14	2013-05-26 14:49:45.738	1
14	2	Betty	White	betty.white@sakilacustomer.org	18	true	2006-02-14	2013-05-26 14:49:45.738	1
15	1	Helen	Harris	helen.harris@sakilacustomer.org	19	true	2006-02-14	2013-05-26 14:49:45.738	1
16	2	Sandra	Martin	sandra.martin@sakilacustomer.org	20	true	2006-02-14	2013-05-26 14:49:45.738	0
17	1	Donna	Thompson	donna.thompson@sakilacustomer.org	21	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.

Query Editor | Query History

```
SELECT first_name, last_name, email
FROM customer;
```

Data Output | Explain | 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

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

Query Editor | Query History

```
1  SELECT *
2  FROM FILM;
```

Data Output | Explain | Messages | Notifications

	film_id [PK] integer	title character varying (255)	description text
1	133	Chamber Italian	A Fateful Reflection of a Moose And a Husband who must Overcome a Monkey in Nigeria
2	384	Grosse Wonderful	A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia
3	8	Airport Pollock	A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India
4	98	Bright Encounters	A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat
5	1	Academy Dinosaur	A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies
6	2	Ace Goldfinger	A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China
7	3	Adaptation Holes	A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Baloon Factory
8	4	Affair Prejudice	A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank
9	5	African Egg	A Fast-Paced Documentary of a Pastry Chef And a Dentist who must Pursue a Forensic Psychologist in The G
10	6	Agent Truman	A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China
11	7	Airplane Sierra	A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat
12	9	Alabama Devil	A Thoughtful Panorama of a Database Administrator And a Mad Scientist who must Outgun a Mad Scientist i
13	10	Aladdin Calendar	A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China
14	11	Alamo Videotape	A Boring Epistle of a Butler And a Cat who must Fight a Pastry Chef in A MySQL Convention
15	12	Alaska Phantom	A Fanciful Saga of a Hunter And a Pastry Chef who must Vanquish a Boy in Australia

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;
```

Data Output | Explain | Messages | Notifications

	release_year integer
1	2006

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

Query Editor | Query History

```
1  SELECT DISTINCT(rental_rate)
2  FROM FILM;
```

Data Output | Explain | Messages | Notifications

	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.

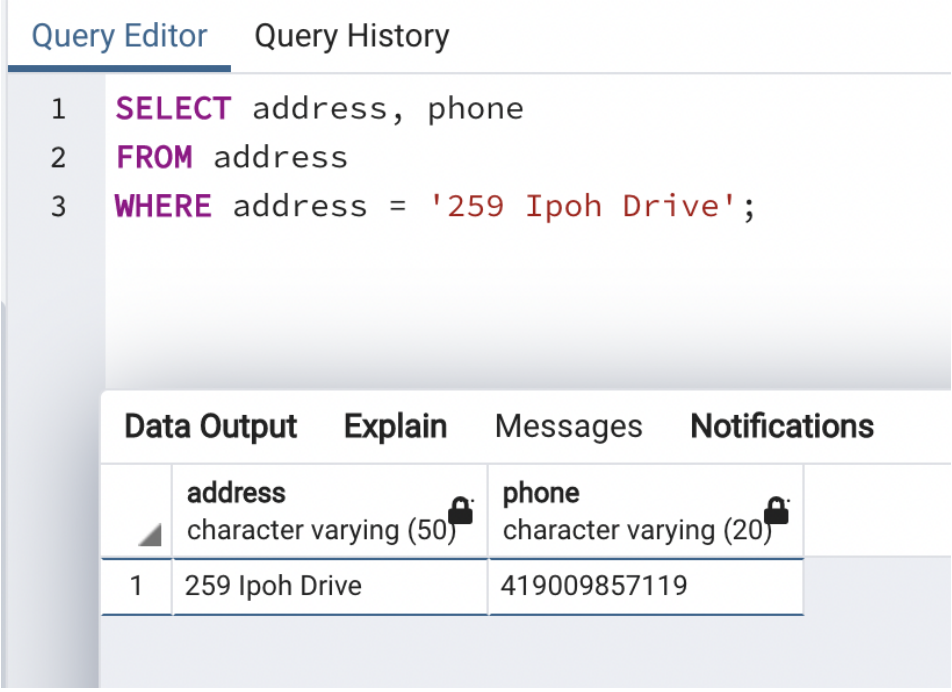
Query Editor | Query History

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

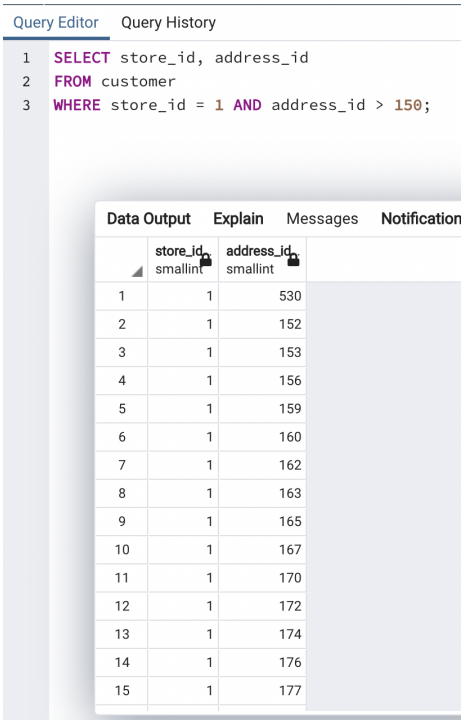
Data Output | Explain | Messages | Notifications

	first_name character varying (45)	last_name character varying (45)	email character varying (50)
1	Nancy	Thomas	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?



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



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

Query Editor | Query History

```
1  SELECT *
2  FROM payment
3  WHERE amount = 4.99 OR amount = 1.99;
```

Data Output | Explain | Messages | Notifications

	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 transitions from the payment table where the amount is greater than 5.

Query Editor | Query History

```
1  SELECT *
2  FROM payment
3  WHERE amount > 5;
```

Data Output | Explain | Messages | Notifications

	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