

Name: Juan Gonzalez

SQL SELECT, WHERE, DISTINCT practice

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

Select * From customer

The screenshot shows a MySQL command-line interface. The command entered is:

```
112
113
114
115
116
117
118
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121
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123
124 Select * From customer
125
126
```

The results are displayed in a table with the following columns: customer_id, store_id, first_name, last_name, email, address_id, active, create_date, and last_update. The data includes 13 rows of customer information.

customer_id	store_id	first_name	last_name	email	address_id	active	create_date	last_update
1	524	Jared	Ely	jared.elly@sakilacustomer.org	530	true	2006-02-14	2013-05-26 1:
2	1	Mary	Smith	mary.smith@sakilacustomer.org	5	true	2006-02-14	2013-05-26 1:
3	2	Patricia	Johnson	patricia.johnson@sakilacustomer.org	6	true	2006-02-14	2013-05-26 1:
4	3	Linda	Williams	linda.williams@sakilacustomer.org	7	true	2006-02-14	2013-05-26 1:
5	4	Barbara	Jones	barbara.jones@sakilacustomer.org	8	true	2006-02-14	2013-05-26 1:
6	5	Elizabeth	Brown	elizabeth.brown@sakilacustomer.org	9	true	2006-02-14	2013-05-26 1:
7	6	Jennifer	Davis	jennifer.davis@sakilacustomer.org	10	true	2006-02-14	2013-05-26 1:
8	7	Maria	Miller	maria.miller@sakilacustomer.org	11	true	2006-02-14	2013-05-26 1:
9	8	Susan	Wilson	susan.wilson@sakilacustomer.org	12	true	2006-02-14	2013-05-26 1:
10	9	Margaret	Moore	margaret.moore@sakilacustomer.org	13	true	2006-02-14	2013-05-26 1:
11	10	Dorothy	Taylor	dorothy.taylor@sakilacustomer.org	14	true	2006-02-14	2013-05-26 1:
12	11	Lisa	Anderson	lisa.anderson@sakilacustomer.org	15	true	2006-02-14	2013-05-26 1:
13	12	Nancy	Thomas	nancy.thomas@sakilacustomer.org	16	true	2006-02-14	2013-05-26 1:

Below the table, a message reads: "Leave us some feedback about our store. Write a query to find her email address - for".

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

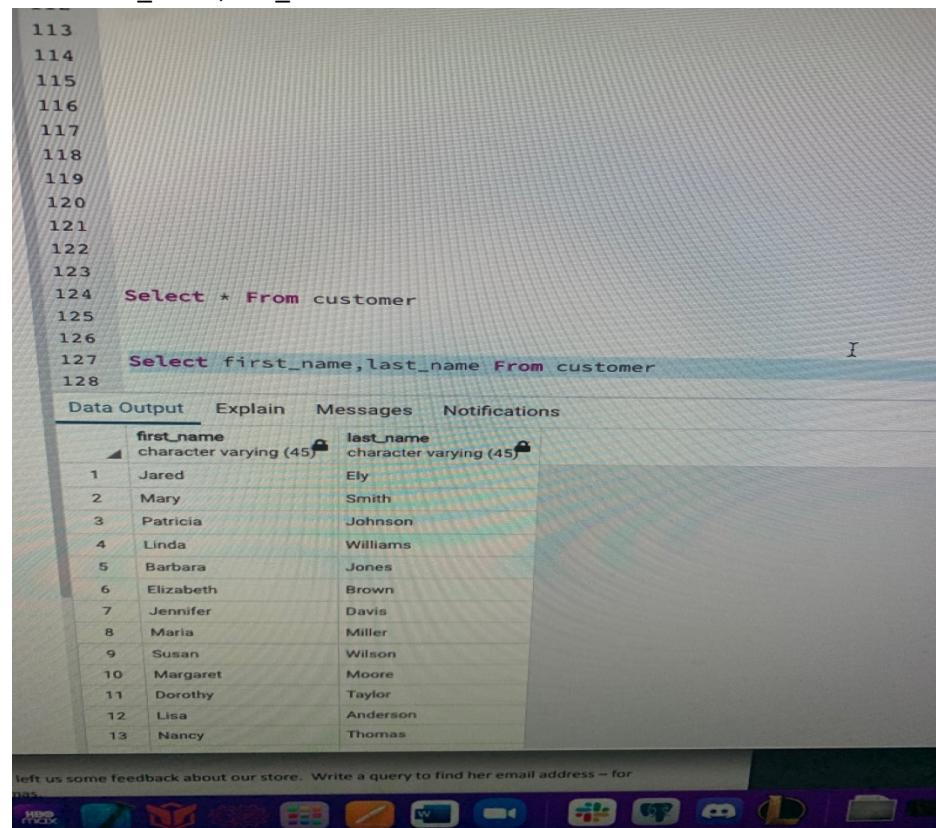
Select first_name, last_name From customer

```
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124 Select * From customer  
125  
126  
127 Select first_name, last_name From customer  
128
```

Data Output Explain Messages Notifications

	first_name	last_name
1	Jared	Ely
2	Mary	Smith
3	Patricia	Johnson
4	Linda	Williams
5	Barbara	Jones
6	Elizabeth	Brown
7	Jennifer	Davis
8	Maria	Miller
9	Susan	Wilson
10	Margaret	Moore
11	Dorothy	Taylor
12	Lisa	Anderson
13	Nancy	Thomas

left us some feedback about our store. Write a query to find her email address – for nas.



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

Select * From film

```

116
117
118
119
120
121
122
123
124 Select * From customer
125
126
127 Select first_name,last_name From customer
128
129 Select * From film
130
131
132

Data Output Explain Messages Notifications


|    | film_id<br>[PK] integer | title<br>character varying (255) | description<br>text                                                                                                   | release_year<br>integer | language<br>smallint |
|----|-------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|
| 1  | 133                     | Chamber Italian                  | A Fateful Reflection of a Moose And a Husband who must Overcome a Monkey in Nigeria                                   | 2006                    |                      |
| 2  | 384                     | Grosse Wonderful                 | A Epic Drama of a Cat And a Explorer who must Redeem a Moose in Australia                                             | 2006                    |                      |
| 3  | 8                       | Airport Pollock                  | A Epic Tale of a Moose And a Girl who must Confront a Monkey in Ancient India                                         | 2006                    |                      |
| 4  | 98                      | Bright Encounters                | A Fateful Yarn of a Lumberjack And a Feminist who must Conquer a Student in A Jet Boat                                | 2006                    |                      |
| 5  | 1                       | Academy Dinosaur                 | A Epic Drama of a Feminist And a Mad Scientist who must Battle a Teacher in The Canadian Rockies                      | 2006                    |                      |
| 6  | 2                       | Ace Goldfinger                   | A Astounding Epistle of a Database Administrator And a Explorer who must Find a Car in Ancient China                  | 2006                    |                      |
| 7  | 3                       | Adaptation Holes                 | A Astounding Reflection of a Lumberjack And a Car who must Sink a Lumberjack in A Balloon Factory                     | 2006                    |                      |
| 8  | 4                       | Affair Prejudice                 | A Fanciful Documentary of a Frisbee And a Lumberjack who must Chase a Monkey in A Shark Tank                          | 2006                    |                      |
| 9  | 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                    |                      |
| 10 | 6                       | Agent Truman                     | A Intrepid Panorama of a Robot And a Boy who must Escape a Sumo Wrestler in Ancient China                             | 2006                    |                      |
| 11 | 7                       | Airplane Sierra                  | A Touching Saga of a Hunter And a Butler who must Discover a Butler in A Jet Boat                                     | 2006                    |                      |
| 12 | 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                    |                      |
| 13 | 10                      | Aladdin Calendar                 | A Action-Packed Tale of a Man And a Lumberjack who must Reach a Feminist in Ancient China                             | 2006                    |                      |


```

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

Select Distinct release_year From film

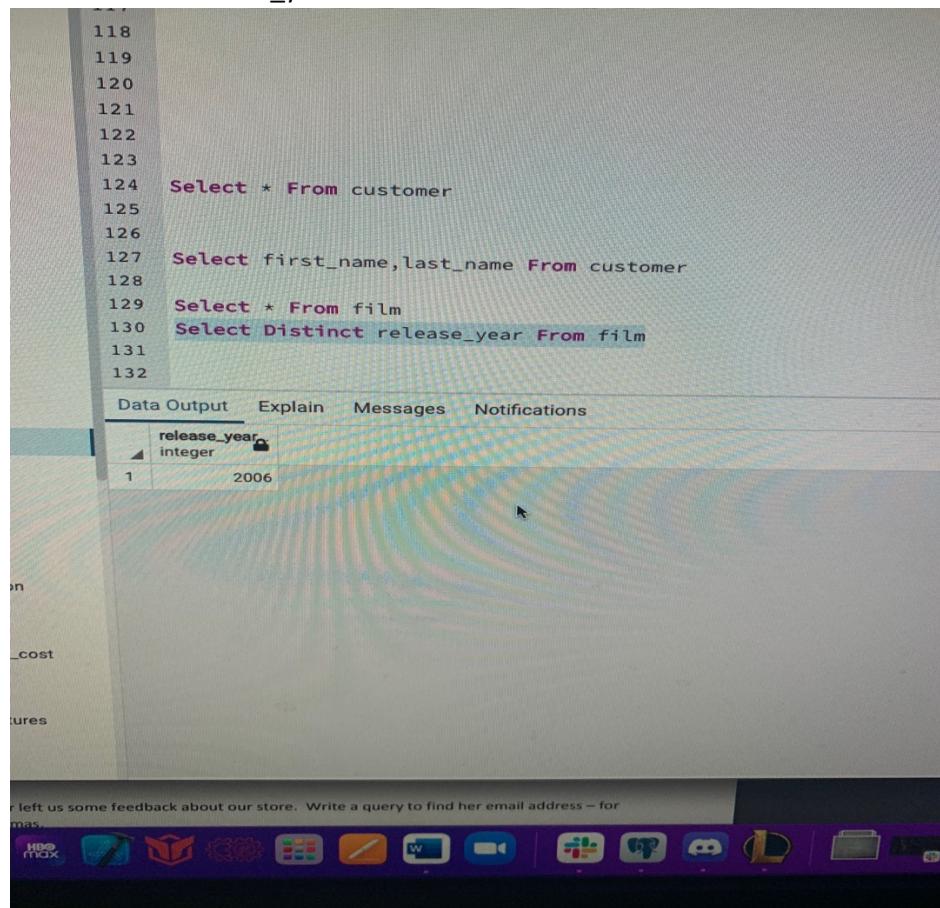
```
117  
118  
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120  
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124 Select * From customer  
125  
126  
127 Select first_name,last_name From customer  
128  
129 Select * From film  
130 Select Distinct release_year From film  
131  
132
```

Data Output Explain Messages Notifications

	release_year
1	2006

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tures

left us some feedback about our store. Write a query to find her email address – for mas.



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

Select Distinct rental_rate From film

The screenshot shows a PostgreSQL terminal window. The command entered is:

```
123
124  Select * From customer
125
126
127  Select first_name,last_name From customer
128
129  Select * From film
130  Select Distinct release_year From film
131  Select Distinct rental_rate From film
132
```

The results of the last query are displayed in a table:

	rental_rate
1	2.99
2	4.99
3	0.99

A message at the bottom left says: "A customer left us some feedback about our store. Write a query to find her email address – for Nancy Thomas." The terminal interface includes tabs for Data Output, Explain, Messages, and Notifications, and a toolbar with various icons.

6. A customer left us some feedback about our store. Write a query to find her email address – for Nancy Thomas. Select email,first_name,last_name From customer Where first_name = 'Nancy'

And last_name='Thomas'

```
--> 125  select * From customer
126
127  Select first_name,last_name From customer
128
129  Select * From film
130  Select Distinct release_year From film
131  Select Distinct rental_rate From film
132  Select email,first_name,last_name From customer Where first_name = 'Nancy' And last_name='Thomas'
```

Data Output Explain Messages Notifications

	email character varying (50)	first_name character varying (45)	last_name character varying (45)
1	nancy.thomas@sakilacustomer.org	Nancy	Thomas

... feedback about our store. Write a query to find her email address – for

7. 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

```
135  Select email,first_name,last_name From customer Where first_name = 'Nancy' And last_name = 'King'
136
137
138
139  Select store_id,address_id From customer Where store_id = 1 And address_id >150
140
```

Data Output		Explain	Messages	Notifications
store_id	address_id			
1	530			
2	152			
3	153			
4	156			
5	159			
6	160			
7	162			
8	163			
9	165			
10	167			
11	170			
12	172			
13	174			

8. 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

```
146
147
148
149
150
151 Select amount From payment Where amount = 4.99 Or amount = 1.99
152
```

Data Output		Explain	Messages	Notifications
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			
8	4.99			
9	4.99			
10	4.99			
11	4.99			
12	4.99			
13	1.99			

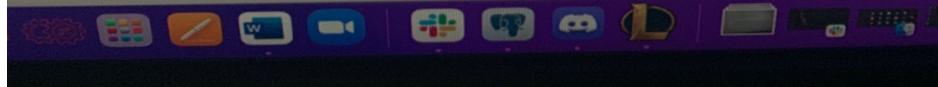
Write a query to find her email address – for

9. Write a query to return a list of transitions from the payment table where the amount is greater than 5. Select amount From payment Where amount >5

```
1  Select amount From payment Where amount = 4.99 Or am
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154
155
156
157
158
159 Select amount From payment Where amount >5
160
```

Data Output		Explain	Messages	Notifications
	amount numeric (5,2)			
1	7.99			
2	7.99			
3	7.99			
4	5.99			
5	5.99			
6	5.99			
7	6.99			
8	6.99			
9	8.99			
10	5.99			
11	8.99			
12	8.99			
13	7.99			

out our store. Write a query to find her email address – for



10. We're trying to find a customer located at a certain address '259 Ipoh Drive' – can you find their phone number? Select address,phone From address Where address = '259 Ipoh Drive'

A screenshot of a PostgreSQL terminal window. The terminal shows a series of numbers from 61 to 178, followed by a SQL query:

```
61
62
63
64
65
66
67
68
69
170  Select address,phone From address Where address = '259 Ipoh Drive'
171
172
173
174
175
176
177
178
```

The query results in a single row:

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

The terminal has tabs for Data Output, Explain, Messages, and Notifications. The Data Output tab is selected. Below the terminal is a purple taskbar with various application icons.