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SQL SELECT, WHERE, DISTINCT practice

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

```
28 select *from customer
29
```

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	is_deleted boolean
137	136	2	Anita	Moraes	anita.moraes@sakilacusto...	140	true	2006-02-14	2006-02-14
138	137	2	Rhonda	Kennedy	rhonda.kennedy@sakilacust...	141	true	2006-02-14	2006-02-14
139	138	1	Hazel	Warren	hazel.warren@sakilacustom...	142	true	2006-02-14	2006-02-14
140	139	1	Amber	Dixon	amber.dixon@sakilacustom...	143	true	2006-02-14	2006-02-14
141	140	1	Eva	Ramos	eva.ramos@sakilacustomer....	144	true	2006-02-14	2006-02-14
142	141	1	Debbie	Reyes	debbie.reyes@sakilacustom...	145	true	2006-02-14	2006-02-14
143	142	1	April	Burns	april.burns@sakilacustomer....	146	true	2006-02-14	2006-02-14
144	143	1	Leslie	Gordon	leslie.gordon@sakilacustom...	147	true	2006-02-14	2006-02-14

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

```
28 select *from customer
29 Select first_name, last_name, email from customer;
30
```

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...
3	Patricia	Johnson	patricia.johnson@sakilacust...
4	Linda	Williams	linda.williams@sakilacusto...
5	Barbara	Jones	barbara.jones@sakilacusto...
6	Elizabeth	Brown	elizabeth.brown@sakilacust...
7	Jennifer	Davis	jennifer.davis@sakilacustom...
8	Maria	Miller	maria.miller@sakilacustome...
9	Susan	Wilson	susan.wilson@sakilacustom...

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

```
28 Select
29
30 *from
31
32 film
33
```

	film_id	title	description	release_year	language_id	rental_duration	rental_rate	length	replacement_cost
	[PK] integer	character varying (255)	text	integer	smallint	smallint	numeric (4,2)	smallint	numeric (5,2)
1	133	Chamber Italian	A Fateful Reflec...	2006	1	7	4.99	117	
2	384	Grosse Wonderful	A Epic Drama of...	2006	1	5	4.99	49	
3	8	Airport Pollock	A Epic Tale of a ...	2006	1	6	4.99	54	
4	98	Bright Encounters	A Fateful Yarn o...	2006	1	4	4.99	73	
5	1	Academy Dinosaur	A Epic Drama of...	2006	1	6	0.99	86	
6	2	Ace Goldfinger	A Astounding E...	2006	1	3	4.99	48	
7	3	Adaptation Hates	A Astounding B...	2006	1	7	0.99	50	

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

```
28 Select
29     distinct release_year
30 from
31     film
32
```

	release_year
	integer
1	2006

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

```

27
28 Select
29     distinct rental_rate
30 from
31     film
32

```

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.

```

28 Select
29     email
30 from
31     customer
32 where
33     first_name = 'Nancy' and |
34     last_name = 'Thomas'

```

Data Output Explain Messages Notifications

	email	
	character varying (50)	🔒
1	nancy.thomas@sakilacusto...	

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

```

28 Select
29     phone
30 from
31     address
32 where
33     address = '259 Ipoh Drive'

```

Data Output Explain Messages Notifications

	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.

```

28 Select
29
30 *from
31     customer
32 where
33     address_id > 150 and
34     store_id = 1

```

	customer_id	store_id	first_name	last_name	email	address_id	activebool	cr
	[PK] integer	smallint	character varying (45)	character varying (45)	character varying (50)	smallint	boolean	da
11	166	1	Lynn	Payne	lynn.payne@sakilacustomer...	170	true	20
12	168	1	Regina	Berry	regina.berry@sakilacustome...	172	true	20
13	170	1	Beatrice	Arnold	beatrice.arnold@sakilacusto...	174	true	20
14	172	1	Bernice	Willis	bernice.willis@sakilacustom...	176	true	20
15	173	1	Audrey	Ray	audrey.ray@sakilacustomer...	177	true	20
16	175	1	Annette	Olson	annette.olson@sakilacusto...	179	true	20
17	176	1	June	Carroll	june.carroll@sakilacustomer...	180	true	20
18	179	1	Dana	Hart	dana.hart@sakilacustomer.o...	183	true	20

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

```
28 Select
29
30 *from
31     payment
32 where
33     amount = '4.99' OR
34     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. Write a query to return a list of transitions from the payment table where the amount is greater than 5.

```

28 Select
29
30 *from
31   payment
32 where
33   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	