

SQL SELECT, WHERE, DISTINCT practice

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

Select * from customer

| | 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@saki... | 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@sakilacu... | 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@sakila... | 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 |

Total rows: 599 of 599 Query complete 00:00:00.321 Ln 1, Col 23

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

Select first_name, last_name, email from customer

| 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 |

Total rows: 599 of 599 Query complete 00:00:00.173

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

Select * from film

| Data output Messages Notifications | | | | | | | | | | | | | |
|------------------------------------|-------------|-------------------------|-----------------|--------------|-------------|-----------------|---------------|----------|------------------|-------------|--------------|---------------|-------------------------------|
| | film_id | title | description | release_year | language_id | rental_duration | rental_rate | length | replacement_cost | rating | last_update | special_featu | fulltext |
| | Pk] integer | character varying (255) | text | integer | smallint | smallint | numeric (4,2) | smallint | numeric (5,2) | mpaa_rating | timestamp wi | text[] | tsvector |
| 1 | 133 | Chamber Italian | A Fateful Re... | 2006 | 1 | 7 | 4.99 | 117 | 14.99 | NC-17 | 2013-05-... | (Trailers) | 'chamber':1 'fate':4 'hu... |
| 2 | 384 | Grosse Wonderful | A Epic Dram... | 2006 | 1 | 5 | 4.99 | 49 | 19.99 | R | 2013-05-... | ('Behind t... | 'australia':18 'cat':8 'dr... |
| 3 | 8 | Airport Pollock | A Epic Tale ... | 2006 | 1 | 6 | 4.99 | 54 | 15.99 | R | 2013-05-... | (Trailers) | 'airport':1 'ancient':18 '... |
| 4 | 98 | Bright Encounters | A Fateful Ya... | 2006 | 1 | 4 | 4.99 | 73 | 12.99 | PG-13 | 2013-05-... | (Trailers) | 'boat':20 'bright':1 'con... |
| 5 | 1 | Academy Dinosaur | A Epic Dram... | 2006 | 1 | 6 | 0.99 | 86 | 20.99 | PG | 2013-05-... | ('Deleted ... | 'academi':1 'batti':15 'c... |
| 6 | 2 | Ace Goldfinger | A Astoundin... | 2006 | 1 | 3 | 4.99 | 48 | 12.99 | G | 2013-05-... | (Trailers,... | 'ace':1 'administr':9 'an... |
| 7 | 3 | Adaptation Holes | A Astoundin... | 2006 | 1 | 7 | 2.99 | 50 | 18.99 | NC-17 | 2013-05-... | (Trailers,... | 'adapt':1 'astound':4 'b... |
| 8 | 4 | Affair Prejudice | A Fanciful D... | 2006 | 1 | 5 | 2.99 | 117 | 26.99 | G | 2013-05-... | (Commen... | 'affair':1 'chase':14 'do... |
| 9 | 5 | African Egg | A Fast-Pace... | 2006 | 1 | 6 | 2.99 | 130 | 22.99 | G | 2013-05-... | ('Deleted ... | 'african':1 'chef':11 'de... |
| 10 | 6 | Agent Truman | A Intrepid P... | 2006 | 1 | 3 | 2.99 | 169 | 17.99 | PG | 2013-05-... | ('Deleted ... | 'agent':1 'ancient':19 'b... |
| 11 | 7 | Airplane Sierra | A Touching ... | 2006 | 1 | 6 | 4.99 | 62 | 28.99 | PG-13 | 2013-05-... | (Trailers,... | 'airplan':1 'boat':20 'bu... |

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

Select Distinct release_year from film

| | release_year |
|---|--------------|
| | integer |
| 1 | 2006 |

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

Select Distinct rental_rate from film

| | | <div> <div>≡+</div> <div>📄</div> <div>▼</div> <div>📋</div> <div>🗑️</div> <div>🗄️</div> <div>⬇️</div> </div> | |
|---|---------------|---|---|
| | rental_rate | | |
| | numeric (4,2) | | 🔒 |
| 1 | 2.99 | | |
| 2 | 4.99 | | |
| 3 | 0.99 | | |
| <div> <div>Total rows: 3 of 3</div> <div>Query complete 00:00:00.206</div> </div> | | | |

6. A customer left us some feedback about our store. Write a query to find her email address – for Nancy Thomas.

Select email from customer

where last_name = 'Thomas' And first_name = 'Nancy'

| | email |
|---|------------------------|
| 1 | nancy.thomas@sakila... |

Total rows: 1 of 1 Query complete 00:00:00.176

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

Select phone from address

where address = '259 Ipoh Drive'

| phone | |
|------------------------|--------------|
| character varying (20) | |
| 1 | 419009857119 |

Total rows: 1 of 1 Query complete 00:00:00.086

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

| | 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 | 148 | 1 | Eleanor | Hunt | eleanor.hunt@sakilac... | 152 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 3 | 149 | 1 | Valerie | Black | valerie.black@sakilac... | 153 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 4 | 152 | 1 | Alicia | Mills | alicia.mills@sakilacu... | 156 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 5 | 155 | 1 | Gail | Knight | gail.knight@sakilacus... | 159 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 6 | 156 | 1 | Bertha | Ferguson | bertha.ferguson@sak... | 160 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 7 | 158 | 1 | Veronica | Stone | veronica.stone@sakil... | 162 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 8 | 159 | 1 | Jill | Hawkins | jill.hawkins@sakilacu... | 163 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 9 | 161 | 1 | Geraldine | Perkins | geraldine.perkins@sa... | 165 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 10 | 163 | 1 | Cathy | Spencer | cathy.spencer@sakila... | 167 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| 11 | 166 | 1 | Lynn | Payne | lynn.payne@sakilacu... | 170 | true | 2006-02-14 | 2013-05-26 14:49:45.738 | 1 |
| Total rows: 241 of 241 Query complete 00:00:00.120 | | | | | | | | | | |

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

Select * from payment

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 | 17561 | 355 | 1 | 2122 | 1.99 | 2007-02-16 16:00:10.996577 |
| Total rows: 1000 of 4004 | | | | | Query complete 00:00:00.270 | |

10. Write a query to return a list of transitions from the payment table where the amount is greater than 5.

Select * from payment

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 | 2222 | 5.99 | 2007-02-20 14:00:00.996577 |
| Total rows: 1000 of 3618 | | | | | Query complete 00:00:00.151 | |