```
Last login: Sun Apr 26 22:05:46 on ttys000
Serhiis-MacBook-Pro:~ serhii$ psql -d dvdrental -U postgres
Password for user postgres:
psql (12.2)
Type "help" for help.

dvdrental=#
dvdrental=#
dvdrental=# SELECT * FROM payment;
 payment_id | customer_id | staff_id | rental_id | amount |      payment_date
------------+-------------+----------+-----------+--------+------------------------
      17503 |         341 |        2 |      1520 |   7.99 | 2007-02-15 22:25:46.996577
      17504 |         341 |        1 |      1778 |   1.99 | 2007-02-16 17:23:14.996577
      17505 |         341 |        1 |      1849 |   7.99 | 2007-02-16 22:41:45.996577
      17506 |         341 |        2 |      2829 |   2.99 | 2007-02-19 19:39:56.996577
      17507 |         341 |        2 |      3130 |   7.99 | 2007-02-20 17:31:48.996577
      17508 |         341 |        1 |      3382 |   5.99 | 2007-02-21 12:33:49.996577
      17509 |         342 |        2 |      2190 |   5.99 | 2007-02-17 23:58:17.996577
      17510 |         342 |        1 |      2914 |   5.99 | 2007-02-20 02:11:44.996577
      17511 |         342 |        1 |      3081 |   2.99 | 2007-02-20 13:57:39.996577
      17512 |         343 |        2 |      1547 |   4.99 | 2007-02-16 00:10:50.996577
      17513 |         343 |        1 |      1564 |   6.99 | 2007-02-16 01:15:33.996577
      17514 |         343 |        2 |      1879 |   0.99 | 2007-02-17 01:26:00.996577
      17515 |         343 |        2 |      1922 |   0.99 | 2007-02-17 04:32:51.996577
      17516 |         343 |        2 |      2461 |   6.99 | 2007-02-18 18:26:38.996577
      17517 |         343 |        1 |      2980 |   8.99 | 2007-02-20 07:03:29.996577
      17518 |         343 |        1 |      3407 |   0.99 | 2007-02-21 14:42:28.996577
      17519 |         344 |        1 |      1341 |   3.99 | 2007-02-15 10:54:44.996577
      17520 |         344 |        2 |      1475 |   4.99 | 2007-02-15 19:36:27.996577
      17521 |         344 |        1 |      1731 |   0.99 | 2007-02-16 14:00:38.996577
      17522 |         345 |        2 |      1210 |   0.99 | 2007-02-15 01:26:17.996577
      17523 |         345 |        1 |      1457 |   4.99 | 2007-02-15 18:34:15.996577
      17524 |         345 |        2 |      1550 |   0.99 | 2007-02-16 00:27:01.996577
      17525 |         345 |        2 |      2766 |   4.99 | 2007-02-19 16:13:41.996577
      17526 |         346 |        2 |      1994 |   5.99 | 2007-02-17 09:35:32.996577
      17527 |         346 |        2 |      3372 |   2.99 | 2007-02-21 12:02:45.996577
      17528 |         346 |        1 |      3421 |   2.99 | 2007-02-21 15:51:24.996577
      17529 |         347 |        2 |      1711 |   8.99 | 2007-02-16 12:40:18.996577
      17530 |         347 |        2 |      2274 |   0.99 | 2007-02-18 04:59:41.996577
      17531 |         347 |        1 |      3026 |   4.99 | 2007-02-20 10:16:26.996577
      17532 |         347 |        1 |      3092 |   8.99 | 2007-02-20 14:33:08.996577
      17533 |         347 |        1 |      3326 |   7.99 | 2007-02-21 07:33:16.996577
      17534 |         348 |        1 |      1654 |   2.99 | 2007-02-16 08:11:14.996577
      17535 |         348 |        1 |      2041 |   8.99 | 2007-02-17 12:47:26.996577
      17536 |         348 |        2 |      2499 |   0.99 | 2007-02-18 21:30:02.996577
      17537 |         349 |        1 |      1197 |   2.99 | 2007-02-15 00:11:12.996577
      17538 |         349 |        1 |      1523 |   0.99 | 2007-02-15 22:47:06.996577
      17539 |         349 |        2 |      2987 |   6.99 | 2007-02-20 07:24:16.996577
      17540 |         349 |        1 |      3067 |   8.99 | 2007-02-20 12:27:47.996577
      17541 |         350 |        2 |      2011 |   3.99 | 2007-02-17 10:24:35.996577
      17542 |         350 |        1 |      2619 |   0.99 | 2007-02-19 06:31:38.996577
      17543 |         350 |        1 |      3079 |   2.99 | 2007-02-20 13:42:06.996577
      17544 |         350 |        2 |      3206 |   0.99 | 2007-02-20 23:08:05.996577
      17545 |         351 |        2 |      1792 |   5.99 | 2007-02-16 18:33:16.996577
      17546 |         351 |        1 |      1869 |   0.99 | 2007-02-17 00:36:26.996577
      17547 |         351 |        1 |      2759 |   2.99 | 2007-02-19 15:38:50.996577
      17548 |         352 |        1 |      1498 |   0.99 | 2007-02-15 20:26:26.996577
      17549 |         352 |        1 |      1649 |   4.99 | 2007-02-16 07:48:59.996577
      17550 |         352 |        1 |      1678 |   4.99 | 2007-02-16 09:36:54.996577
      17551 |         352 |        1 |      1780 |   4.99 | 2007-02-16 17:40:11.996577
      17552 |         352 |        2 |      3331 |   4.99 | 2007-02-21 08:06:19.996577
      17553 |         353 |        2 |      1359 |   2.99 | 2007-02-15 11:58:56.996577
      17554 |         353 |        2 |      1928 |   7.99 | 2007-02-17 05:16:57.996577
      17555 |         353 |        2 |      3233 |   6.99 | 2007-02-21 01:07:57.996577
      17556 |         354 |        1 |      1491 |   0.99 | 2007-02-15 20:16:44.996577
      17557 |         354 |        1 |      2275 |   4.99 | 2007-02-18 04:59:55.996577
      17558 |         354 |        1 |      2769 |   6.99 | 2007-02-19 16:20:40.996577
      17559 |         354 |        1 |      3139 |   2.99 | 2007-02-20 18:13:11.996577
      17560 |         355 |        2 |      1488 |   0.99 | 2007-02-15 05:20:08.996577
      17561 |         355 |        1 |      1612 |   2.99 | 2007-02-16 05:20:31.996577
      17562 |         356 |        1 |      1410 |   0.99 | 2007-02-15 15:28:12.996577
      17563 |         356 |        1 |      2405 |   2.99 | 2007-02-18 15:05:04.996577
      17564 |         356 |        1 |      2433 |   4.99 | 2007-02-18 16:38:43.996577
      17565 |         357 |        2 |      1246 |   5.99 | 2007-02-15 03:39:45.996577
      17566 |         357 |        1 |      1788 |   1.99 | 2007-02-16 18:15:44.996577
      17567 |         357 |        2 |      1971 |   1.99 | 2007-02-17 07:52:25.996577
      17568 |         357 |        2 |      2153 |   6.99 | 2007-02-17 21:26:30.996577
      17569 |         358 |        1 |      1455 |   2.99 | 2007-02-15 18:19:32.996577
      17570 |         358 |        2 |      1908 |   0.99 | 2007-02-17 03:39:02.996577
      17571 |         358 |        1 |      2114 |   5.99 | 2007-02-17 18:28:51.996577
      17572 |         358 |        1 |      2721 |   2.99 | 2007-02-19 13:21:50.996577
      17573 |         358 |        1 |      2749 |   2.99 | 2007-02-19 14:56:01.996577
dvdrental=# SELECT * FROM payment WHERE amount > 5.00;
 payment_id | customer_id | staff_id | rental_id | amount |      payment_date
------------+-------------+----------+-----------+--------+------------------------
      17503 |         341 |        2 |      1520 |   7.99 | 2007-02-15 22:25:46.996577
      17505 |         341 |        1 |      1849 |   7.99 | 2007-02-16 22:41:45.996577
      17507 |         341 |        2 |      3130 |   7.99 | 2007-02-20 17:31:48.996577
      17508 |         341 |        1 |      3382 |   5.99 | 2007-02-21 12:33:49.996577
      17509 |         342 |        2 |      2190 |   5.99 | 2007-02-17 23:58:17.996577
      17510 |         342 |        1 |      2914 |   5.99 | 2007-02-20 02:11:44.996577
      17513 |         343 |        1 |      1564 |   6.99 | 2007-02-16 01:15:33.996577
      17516 |         343 |        2 |      2461 |   6.99 | 2007-02-18 18:26:38.996577
      17517 |         343 |        1 |      2980 |   8.99 | 2007-02-20 07:03:29.996577
      17526 |         346 |        2 |      1994 |   5.99 | 2007-02-17 09:35:32.996577
      17529 |         347 |        2 |      1711 |   8.99 | 2007-02-16 12:40:18.996577
      17532 |         347 |        1 |      3092 |   8.99 | 2007-02-20 14:33:08.996577
      17533 |         347 |        1 |      3326 |   7.99 | 2007-02-21 07:33:16.996577
      17535 |         348 |        1 |      2041 |   8.99 | 2007-02-17 12:47:26.996577
      17539 |         349 |        2 |      2987 |   6.99 | 2007-02-20 07:24:16.996577
      17540 |         349 |        1 |      3067 |   8.99 | 2007-02-20 12:27:47.996577
      17545 |         351 |        2 |      1792 |   5.99 | 2007-02-16 18:33:16.996577
      17554 |         353 |        2 |      1928 |   7.99 | 2007-02-17 05:16:57.996577
      17555 |         353 |        2 |      3233 |   6.99 | 2007-02-21 01:07:57.996577
      17558 |         354 |        1 |      2769 |   6.99 | 2007-02-19 16:20:40.996577
      17565 |         357 |        2 |      1246 |   5.99 | 2007-02-15 03:39:45.996577
      17568 |         357 |        2 |      2153 |   6.99 | 2007-02-17 21:26:30.996577
      17571 |         358 |        1 |      2114 |   5.99 | 2007-02-17 18:28:51.996577
      17580 |         360 |        2 |      2402 |   6.99 | 2007-02-18 14:53:11.996577
      17582 |         360 |        2 |      2780 |   6.99 | 2007-02-19 16:47:59.996577
      17603 |         365 |        1 |      1578 |   6.99 | 2007-02-16 02:36:42.996577
      17611 |         368 |        1 |      1513 |   9.99 | 2007-02-15 21:21:56.996577
      17617 |         370 |        2 |      1190 |   6.99 | 2007-02-14 23:33:58.996577
      17620 |         371 |        1 |      1573 |   6.99 | 2007-02-16 02:00:05.996577
      17621 |         371 |        2 |      1675 |   5.99 | 2007-02-16 09:33:13.996577
      17628 |         373 |        1 |      1472 |   6.99 | 2007-02-15 19:23:21.996577
      17635 |         375 |        1 |      1499 |   5.99 | 2007-02-15 20:26:33.996577
      17645 |         378 |        1 |      1662 |   5.99 | 2007-02-16 08:42:01.996577
      17646 |         378 |        2 |      2134 |   7.99 | 2007-02-17 19:42:10.996577
      17648 |         379 |        1 |      1383 |   8.99 | 2007-02-15 13:48:32.996577
      17649 |         379 |        1 |      2313 |   5.99 | 2007-02-18 07:25:11.996577
      17669 |         383 |        1 |      1831 |   7.99 | 2007-02-16 20:50:43.996577
      17673 |         383 |        1 |      2609 |   7.99 | 2007-02-19 05:41:38.996577
      17677 |         384 |        1 |      2378 |   7.99 | 2007-02-18 13:26:15.996577
      17678 |         384 |        2 |      2510 |   5.99 | 2007-02-18 22:12:47.996577
      17680 |         384 |        1 |      3088 |   9.99 | 2007-02-20 14:24:31.996577
      17687 |         386 |        2 |      1819 |   5.99 | 2007-02-16 20:01:16.996577
      17694 |         387 |        2 |      2981 |   5.99 | 2007-02-20 07:03:43.996577
      17696 |         388 |        2 |      1276 |   6.99 | 2007-02-15 06:28:39.996577
      17698 |         388 |        2 |      2537 |   5.99 | 2007-02-19 00:20:47.996577
      17700 |         388 |        2 |      3159 |   7.99 | 2007-02-20 19:40:16.996577
      17704 |         390 |        1 |      1539 |   5.99 | 2007-02-15 23:39:51.996577
      17707 |         390 |        1 |      2330 |   7.99 | 2007-02-18 09:09:45.996577
      17708 |         390 |        1 |      3147 |   5.99 | 2007-02-20 18:53:43.996577
      17714 |         392 |        2 |      1530 |   6.99 | 2007-02-15 23:06:33.996577
      17718 |         393 |        1 |      1611 |   6.99 | 2007-02-16 05:10:01.996577
      17729 |         395 |        1 |      3389 |   6.99 | 2007-02-21 13:06:21.996577
      17732 |         396 |        2 |      1408 |   6.99 | 2007-02-15 15:26:24.996577
      17733 |         397 |        1 |      1769 |   5.99 | 2007-02-16 16:36:14.996577
      17736 |         398 |        1 |      2087 |   6.99 | 2007-02-17 16:03:36.996577
      17737 |         398 |        2 |      3141 |   9.99 | 2007-02-20 18:24:13.996577
      17739 |         399 |        1 |      3036 |   5.99 | 2007-02-20 10:46:57.996577
      17742 |         400 |        2 |      1923 |   6.99 | 2007-02-17 04:34:36.996577
      17747 |         403 |        1 |      1249 |   8.99 | 2007-02-15 04:06:35.996577
      17750 |         403 |        2 |      3049 |   6.99 | 2007-02-20 11:19:27.996577
      17751 |         403 |        1 |      3356 |   5.99 | 2007-02-21 10:07:11.996577
      17758 |         405 |        2 |      1953 |   5.99 | 2007-02-17 07:03:23.996577
      17761 |         405 |        1 |      3253 |   5.99 | 2007-02-21 01:54:03.996577
      17767 |         406 |        1 |      3186 |   7.99 | 2007-02-20 21:32:46.996577
      17774 |         409 |        2 |      1226 |   5.99 | 2007-02-15 02:14:36.996577
      17775 |         409 |        1 |      2310 |   8.99 | 2007-02-18 07:14:25.996577
      17779 |         410 |        2 |      2400 |   5.99 | 2007-02-18 14:39:12.996577
      17786 |         413 |        2 |      2130 |   5.99 | 2007-02-17 19:29:10.996577
      17789 |         414 |        2 |      2559 |   9.99 | 2007-02-19 01:38:12.996577
      17790 |         414 |        1 |      3318 |   5.99 | 2007-02-21 06:51:31.996577
      17812 |         422 |        1 |      2778 |   5.99 | 2007-02-19 16:46:38.996577
dvdrental=#
dvdrental=#
dvdrental=# SELECT COUNT(*) FROM payment WHERE amount > 5.00;
 count
-------
  3618
(1 row)

dvdrental=#
dvdrental=#
dvdrental=# SELECT *  FROM actor WHERE first_name LIKE 'P%';
 actor_id | first_name | last_name |      last_update
----------+------------+-----------+------------------------
        1 | Penelope   | Guiness   | 2013-05-26 14:47:57.62
       46 | Parker     | Goldberg  | 2013-05-26 14:47:57.62
       54 | Penelope   | Pinkett   | 2013-05-26 14:47:57.62
      104 | Penelope   | Cronyn    | 2013-05-26 14:47:57.62
      120 | Penelope   | Monroe    | 2013-05-26 14:47:57.62
```

```
(5 rows)

dvdrental=#
dvdrental=#
dvdrental=# \dt
                List of relations
 Schema |      Name      | Type  |  Owner
--------+----------------+-------+----------
 public | actor          | table | postgres
 public | address        | table | postgres
 public | category       | table | postgres
 public | city           | table | postgres
 public | country        | table | postgres
 public | customer       | table | postgres
 public | film           | table | postgres
 public | film_actor     | table | postgres
 public | film_category  | table | postgres
 public | inventory      | table | postgres
 public | language       | table | postgres
 public | payment        | table | postgres
 public | rental         | table | postgres
 public | staff          | table | postgres
 public | store          | table | postgres
(15 rows)

dvdrental=# \d+ customer
                                                          Table "public.customer"
   Column    |            Type             | Collation | Nullable |                    Default                    | Storage  | Stats target | Description
-------------+-----------------------------+-----------+----------+-----------------------------------------------+----------+--------------+-------------
 customer_id | integer                     |           | not null | nextval('customer_customer_id_seq'::regclass) | plain    |              |
 store_id    | smallint                    |           | not null |                                               | plain    |              |
 first_name  | character varying(45)       |           | not null |                                               | extended |              |
 last_name   | character varying(45)       |           | not null |                                               | extended |              |
 email       | character varying(50)       |           |          |                                               | extended |              |
 address_id  | smallint                    |           | not null |                                               | plain    |              |
 activebool  | boolean                     |           | not null | true                                          | plain    |              |
 create_date | date                        |           | not null | 'now'::text::date                             | plain    |              |
 last_update | timestamp without time zone |           |          | now()                                         | plain    |              |
 active      | integer                     |           |          |                                               | plain    |              |
Indexes:
    "customer_pkey" PRIMARY KEY, btree (customer_id)
    "idx_fk_address_id" btree (address_id)
    "idx_fk_store_id" btree (store_id)
    "idx_last_name" btree (last_name)
Foreign-key constraints:
    "customer_address_id_fkey" FOREIGN KEY (address_id) REFERENCES address(address_id) ON UPDATE CASCADE ON DELETE RESTRICT
Referenced by:
    TABLE "payment" CONSTRAINT "payment_customer_id_fkey" FOREIGN KEY (customer_id) REFERENCES customer(customer_id) ON UPDATE CASCADE ON DELETE RESTRICT
    TABLE "rental" CONSTRAINT "rental_customer_id_fkey" FOREIGN KEY (customer_id) REFERENCES customer(customer_id) ON UPDATE CASCADE ON DELETE RESTRICT
Triggers:
    last_updated BEFORE UPDATE ON customer FOR EACH ROW EXECUTE FUNCTION last_updated()
Access method: heap

dvdrental=#
dvdrental=# \d+ address
                                                          Table "public.address"
   Column    |            Type             | Collation | Nullable |                   Default                    | Storage  | Stats target | Description
-------------+-----------------------------+-----------+----------+----------------------------------------------+----------+--------------+-------------
 address_id  | integer                     |           | not null | nextval('address_address_id_seq'::regclass)  | plain    |              |
 address     | character varying(50)       |           | not null |                                              | extended |              |
 address2    | character varying(50)       |           |          |                                              | extended |              |
 district    | character varying(20)       |           | not null |                                              | extended |              |
 city_id     | smallint                    |           | not null |                                              | plain    |              |
 postal_code | character varying(10)       |           |          |                                              | extended |              |
 phone       | character varying(20)       |           | not null |                                              | extended |              |
 last_update | timestamp without time zone |           | not null | now()                                        | plain    |              |
Indexes:
    "address_pkey" PRIMARY KEY, btree (address_id)
    "idx_fk_city_id" btree (city_id)
Foreign-key constraints:
    "fk_address_city" FOREIGN KEY (city_id) REFERENCES city(city_id)
Referenced by:
    TABLE "customer" CONSTRAINT "customer_address_id_fkey" FOREIGN KEY (address_id) REFERENCES address(address_id) ON UPDATE CASCADE ON DELETE RESTRICT
    TABLE "staff" CONSTRAINT "staff_address_id_fkey" FOREIGN KEY (address_id) REFERENCES address(address_id) ON UPDATE CASCADE ON DELETE RESTRICT
    TABLE "store" CONSTRAINT "store_address_id_fkey" FOREIGN KEY (address_id) REFERENCES address(address_id) ON UPDATE CASCADE ON DELETE RESTRICT
Triggers:
    last_updated BEFORE UPDATE ON address FOR EACH ROW EXECUTE FUNCTION last_updated()
Access method: heap

dvdrental=#
dvdrental=# SELECT COUTN(DISTINCT(district)) FROM address;
ERROR:  function coutn(character varying) does not exist
LINE 1: SELECT COUTN(DISTINCT(district)) FROM address;
               ^
HINT:  No function matches the given name and argument types. You might need to add explicit type casts.
dvdrental=# SELECT COUTN(DISTINCT(district)) FROM address;
ERROR:  function coutn(character varying) does not exist
LINE 1: SELECT COUTN(DISTINCT(district)) FROM address;
               ^
HINT:  No function matches the given name and argument types. You might need to add explicit type casts.
dvdrental=#
dvdrental=#
dvdrental=#
dvdrental=# SELECT COUNT(*) FROM address;
 count
-------
   603
(1 row)

dvdrental=#
dvdrental=# SELECT COUNT(DISTINCT(*)) FROM address;
ERROR:  syntax error at or near "*"
LINE 1: SELECT COUNT(DISTINCT(*)) FROM address;
                             ^
dvdrental=# SELECT COUNT(DISTINCT(district)) FROM address;
 count
-------
   378
(1 row)

dvdrental=#
dvdrental=#
dvdrental=# exit
Serhiis-MacBook-Pro:~ serhii$
Serhiis-MacBook-Pro:~ serhii$
Serhiis-MacBook-Pro:~ serhii$
```