محمد هادي اميد

تمرین ۱۳

سوال یک:

• تمام جدول های ثبت شده در دیتابیس را نمایش دهید.

```
-- part 1
\dt
```

```
_ D X
 SQL Shell (psql)
dvdrental−# \dt
List of relations
Schema¦ Name ¦ Type
                                                                                        Owner
public |
                                                                 table
table
table
                        actor
address
                                                                                     postgres
                                                                                      postgres
                         category
city
                                                                                      postgres
                                                                  table
                                                                                      postgres
                                                                 table
table
                                                                                     postgres
postgres
postgres
                        country
                        country
customer
film
film_actor
film_category
inventory
language
                                                                 table table
                                                                                      postgres
                                                                 table table
                                                                                      postgres
                                                                                     postgres
postgres
                                                                  table
                        payment
rental
staff
                                                                 table
table
                                                                                      postgres
                                                                                     postgres
postgres
                                                                  table
                                                                 table
                        store
                                                                                     postgres
dvdrental-#
```

تمام مشتریانی که حرف اول آنها با R شروع شده یا با N تمام شده.

```
-- part 2
SELECT
first_name
FROM
customer
WHERE
first_name LIKE 'R%' OR first_name LIKE '%n';
```

```
_ D X
SQL Shell (psql)
dudrental=#
dudrental=# SELECT first_name
dudrental-# FROM CUSTOMER
dudrental-# WHERE first_name LIKE 'R%'OR first_name LIKE '%n';
 first_name
 Susan
Karen
Helen
  Ruth
  Sharon
  Rebecca
  Kathleen
  Carolyn
 Ann
Evelyn
 Jean
  Joan
  Rose
 Rachel
Rachel
Marilyn
Kathryn
Ruby
Lillian
  Robin
  Rita
  Dawn
  Carmen
 Rosa
Shannon
Ellen
Rhonda
 Megan
Erin
  Lauren
  Joann
  Lynn
 Regina
Marion
  Renee
  Vivian
 Roberta
Kristen
 Rosemary
Eileen
Kristin
  Maureen
 Colleen
Allison
 Marian
Gwendolyn
  Ramona
  John
 Robert
Richard
Steven
Brian
```

• تعداد مشتریانی که آدرس آیدی آنها بزرگتر از 20 است.

```
-- part 3
SELECT
    count(customer_id)
FROM
    customer
WHERE
    customer_id > 20;
```

```
dvdrental=#
dvdrental=# SELECT count(customer_id)
dvdrental=# FROM CUSTOMER
dvdrental=# WHERE customer_id > 20;
count
-----
579
(1 row)
dvdrental=#
```

• لیست بازیگرانی که نام کوچک آنها Nick-Bette-Ed

```
-- part 4
SELECT
   *
FROM
   actor
WHERE
   first_name LIKE 'Nick' OR first_name LIKE 'Ed' OR first_name LIKE 'Bette';
```

## • نمایش نام کوچک بازیگران با اسامی کوچک منحصر به فرد به ترتیب الفبا

```
-- part 5
SELECT
    DISTINCT(first_name)
FROM
    actor
ORDER BY first_name;
```

```
_ D X
SQL Shell (psql)
dvdrental=# SELECT DISTINCT(first_name)
dvdrental-# FROM actor
dvdrental-# ORDER BY first_name;
 first_name
 Adam
 Al
Alan
Albert
Alec
 Angela
Angelina
  Anne
  Audrey
  Be la
 Ben
Bette
 Bob
Burt
  Cameron
 Carmen
Cary
 Cary
Cate
Charlize
Chris
Christian
Christopher
  Cuba
 Dan
 Daryl
Debbie
 Dustin
 Ed
Ellen
Elvis
Emily
 Ewan
Fay
 Fay
Frances
Fred
Gary
 Gene
Geoffrey
 Gina
Goldie
  Grace
 Greg
Gregory
Greta
 Groucho
Harrison
  Harvey
  Helen'
 Henry
- More
```

• بدست آوردن میانگین - بیشترین - کمترین- مجموع مدت اجاره و نامگذاری شخصی به ستون از جدول فیلم

```
-- part 6

SELECT

AVG(rental_duration) AS avg,

MAX(rental_duration) AS max,

MIN(rental_duration) AS min,

SUM(rental_duration) AS sum

FROM

film;
```

```
-- part 7
SELECT
    first_name,
    last_name,
    amount,
    return_date
FROM
    customer
INNER JOIN rental
    ON customer_id = rental.customer_id
INNER JOIN payment
    ON payment.customer_id = rental.customer_id;
```

```
_ D X
 SQL Shell (psql)
dudrental=#
dudrental=#
dudrental-#
dudrental-#
dudrental-#
dudrental-#
dudrental-#
dudrental-#
dudrental-#
dudrental-#
dudrental-#
                                                                                                                                                                 SELECT first_name,
last_name,
                                                                                                                                                                                                                                                                            amount, return_date
                                                                                                                                                                       From customer INNER JOIN rental
                                                                                                                                                                         \begin{array}{c} 2005 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 05 - 28 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005 - 06 - 01 \\ 2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
19:40:33
                                                                                                                                                                                          | Collazo | Coll
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tommy
                    Tommy
                 Tommy
Tommy
                 Tommy
Tommy
Tommy
Tommy
                    Tommy
                   Tommy
Tommy
                    Tommy
                   Tommy
Tommy
                    Tommy
                   Tommy
                   Tommy
Tommy
                    Tommy
                   Tommy
                      Tommy
                   Tommy
Tommy
                   Tommu
                    Tommy
                   Tommy
                   Tommy
                   Tommy
                    Tommy
                    Tommy
                   Tommy
                      Tommý
                   Tommy
                 Tommy
Manuel
Manuel
Manuel
                                                                                                                                                                                                                 Murrell
Murrell
Murrell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22:12:39
22:12:39
22:12:39
22:12:39
22:12:39
22:12:39
                                                                                                                                                                                                                     Murrell
Murrell
Murrell
                   Manue 1
                   Manue 1
                   Manue 1
                                                                                                                                                                                                                 Murrell
Murrell
                    Manue 1
                   Manue 1
```

در جدول آدرس، آدرس هایی موجود است که مربوط به شخص منحصر به فرد و شهر و کشور هایی متفاوت است همه آنها را با ذکر نام و نام خانوادگی با هم و آدرس و کد شهر و نام شهر و کشور بر اساس نام کشور به ترتیب حروف الفبا نمایش دهید

```
-- part 8
SELECT
    CONCATE(first_name , ' ', last_name),
    address,
    city,
    city.city_id,
    country
FROM
    customer
INNER JOIN address
    ON customer.address_id = address.address_id
INNER JOIN city
    ON city.city_id = address.city_id
INNER JOIN country
    ON country.country_id = city.country_id
ORDER BY country;
```

```
_ D X
SQL Shell (psql)
dvdrental=#
dvdrental=# SELECT CONCAT(first_name, '', last_name) as name,
dvdrental=# address,
dvdrental=# city.city_id,
name
city
                                                           address
                                                                                              | city_id |
                                                           country
                                    1168 Najafabad Parkway
Afghanistan
757 Rustenburg Avenue
Algeria
1924 Shimonoseki Drive
Algeria
1031 Daugavpils Parkway
Algeria
1892 Nabereznyje Telny Lane
American Samoa
486 Ondo Parkway
Angola
                                                                                                       251 | Kabu
 Vera Mccoy
 June Carroll
                                                                                                       483 ! Skik
 Mario Cheatham
                                                                                                        59 | Batn
 Judy Gray
                                                                                                        63 | Bcha
 Anthony Schwab
                                                                                                       516 | Tafu
 Claude Herzog
                                                                                                        67 | Beng
                                    Angola
368 Hunuco Boulevard
uela
Martin Bales
                                                                                                       360 | Nami
                                    Angola
1368 Maracabo Boulevard
Anguilla
96 Tafuna Way
Bobby Boudreau
h Hill
Kimberly Lee
                                                                                                       493 | Sout
                                                                                                       128 | Crdo
                                    Argentina
1532 Dzerzinsk Way
 Florence Woods
                                                                                                       334 | Mer1
                                    Argentina
1229 Varanasi (Benares) Manor
                                                                                                       43 | Ave1
 Jordan Archuleta
laneda
| Willie Howell
                                     Argentina
1244 Allappuzha (Alleppey) Place
                                                                                                       567 | Vice
                                    Argentina
1926 El Alto Avenue
nte Lpez
Julia Flores
                                                                                                       289 ! La P
lata
Darryl Ashcraft
                                    Argentina
166 Jinchang Street
                                                                                                       165 | Ezei
```