**POSTGRESQL ASSIGNMENT**

1. How many payment transactions were greater than $5.00?

Ans: select count(amount) from payment where amount > 5; **3618**.

2. How many actors have a first name that starts with the letter P?

Ans: select count(first\_name) from actor where first\_name like 'P%'; **5.**

3. How many unique districts are our customers from?

Ans: select distinct count(District) from address; **603**.

4. Retrieve the list of names for those distinct districts from the previous question.

Ans: select distinct District from address;

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| "Aden" | "Eastern Visayas" | "Vaduz" | "Tokat" | "Anzotegui" | "Saint-Denis" |
| "Chollanam" | "Chihuahua" | "Nyanza" | "Changhwa" | "Tokyo-to" | "Santa F" |
| "Denizli" | "Noord-Brabant" | "Hubei" | "Zulia" | "Paran" | "Mwanza" |
| "Nova Scotia" | "Caraga" | "Batman" | "Assam" | "Hanoi" | "Andhra Pradesh" |
| "Battambang" | "Washington" | "Madhya Pradesh" | "Gauteng" | "Adana" | "Basel-Stadt" |
| "Par" | "Risaralda" | "Jiangxi" | "West Bengali" | "Tennessee" | "Copperbelt" |
| "Krim" | "Arecibo" | "Guangdong" | "Shiga" | "Santa Catarina" | "Vojvodina" |
| "Maharashtra" | "Northern Mindanao" | "Rio Grande do Sul" | "Ynlin" | "Scotland" | "Edo & Delta" |
| "Central Visayas" | "al-Manama" | "North West" | "Kaohsiung" | "Baja California Sur" | "Chuquisaca" |
| "Nampula" | "Ibaragi" | "Carabobo" | "Provence-Alpes-Cte" | "Mxico" | "Smolensk" |
| "Qaraghandy" | "Funafuti" | "Haryana" | "Saarland" | "al-Qadarif" | "Tabora" |
| "Pyongyang-si" | "Tamil Nadu" | "Steiermark" | "Baijeri" | "Adygea" | "Yamaguchi" |
| "Georgia" | "Northern Cape" | "Baskimaa" | "Santiago" | "Tucumn" | "Lilongwe" |
| "Sisilia" | "Markazi" | "Hamilton" | "Liaoning" | "Chisinau" | "Sofala" |
| "Tutuila" | "Distrito Federal" | "Nantou" | "Bukarest" | "West Greece" | "Miyazaki" |
| "Hawalli" | "Rio de Janeiro" | "Central Mindanao" | "East Java" | "British Colombia" | "Botosani" |
| "Bern" | "Northern" | "Nordrhein-Westfalen" | "Kerman" | "Balikesir" | "Kitaa" |
| "Tamaulipas" | "Gujarat" | "Piemonte" | "Nothwest Border Prov" | "Kurgan" | "Kursk" |
| "Salzburg" | "Kaduna" | "Hodeida" | "Osmaniye" | "Ohio" | "Asuncin" |
| "Kerala" | "Midi-Pyrnes" | "Batna" | "Ponce" | "al-Sharqiya" | "Lombardia" |
| "Sichuan" | "East Kasai" | "Nagasaki" | "Perak" | "National Capital Reg" | "Volgograd" |
| "Bretagne" | "Skne ln" | "England" | "Bauchi & Gombe" | "Western Cape" | "Xinxiang" |
| "Mie" | "Gifu" | "Nakhon Sawan" | "Kanagawa" | "Southern Mindanao" | "New Hampshire" |
| "Haskovo" | "Sanaa" | "Minsk" | "Brunei and Muara" | "Tete" | "Miranda" |
| "Oyo & Osun" | "Kyonggi" | "Skikda" | "Oriental" | "St George" | "Kowloon and New Kowl" |
| "Kujawsko-Pomorskie" | "Florida" | "Slaskie" | "Baja California" | "Wielkopolskie" | "Inner Mongolia" |
| "Khanh Hoa" | "Krasnojarsk" | "Pohjois-Pohjanmaa" | "Severn Morava" | "Punjab" | "Sumqayit" |
| "Gaziantep" | "St Thomas" | "Sumy" | "Massachusetts" | "Gansu" | "Osaka" |
| "Kabol" | "Haiphong" | "Cheju" | "Illinois" | "Coahuila de Zaragoza" | "Virginia" |
| "Chiayi" | "Minas Gerais" | "Gurico" | "Hebei" | "Shaba" | "Buenos Aires" |
| "Asturia" | "KwaZulu-Natal" | "Mandalay" | "Hmelnytskyi" | "Fukushima" | "Taipei" |
| "Baden-Wrttemberg" | "Saitama" | "Tadla-Azilal" | "Galicia" | "Gelderland" | "al-Qalyubiya" |
| "Attika" | "Irkutsk" | "Gois" | "Zufar" | "Nonthaburi" | "Anhalt Sachsen" |
| "Tongatapu" | "Friuli-Venezia Giuli" | "Pietari" | "Namibe" | "Okinawa" | "Free State" |
| "Central Java" | "Tel Aviv" | "Jalisco" | "Oaxaca" | "Fejr" | "Sumatera Selatan" |
| "Kwara & Kogi" | "Puebla" | "Cear" | "Heilongjiang" | "Fujian" | "Sokoto & Kebbi & Zam" |
| "Addis Abeba" | "Nebraska" | "Sousse" | "Nord-Ouest" | "Stavropol" | "Mahajanga" |
| "Esprito Santo" | "Vaud" | "OHiggins" | "Tartumaa" | "Mazowieckie" | "Kaliningrad" |
| "Colorado" | "Abu Dhabi" | "Bchar" | "Vilna" | "Eskisehir" | "West Java" |
| "Baki" | "Mekka" | "Taka-Karpatia" | "Ha Darom" | "Valle" | "Ahal" |
| "Antofagasta" | "Masqat" | "Usak" | "Shandong" |  | "Callao" |
| "Henan" | "Ninawa" | "Benguela" | "Kilis" | "QLD" | "Michigan" |
| "Dhaka" | "Kalimantan Barat" | "Chaharmahal va Bakht" | "Central Serbia" | "Istanbul" | "Nam Ha" |
| "Sivas" | "La Paz" | "Chari-Baguirmi" | "Alberta" | "Chimborazo" | "Hiroshima" |
| "California" | "La Romana" | "Komi" | "Jiangsu" | "Jakarta Raya" | "Kyongsangbuk" |
| "Ziguinchor" | "Tabuk" | "Sinaloa" | "Sharja" | "Bratislava" | "Cayenne" |
| "Songkhla" | "Yerevan" | "Uttar Pradesh" | "Okayama" | "Ondo & Ekiti" | "Utrecht" |
| "Bursa" | "Taizz" | "North Austria" | "Hidalgo" | "Jharkhand" | "Rajasthan" |
| "Ningxia" | "Puerto Plata" | "Missouri" | "Loja" | "al-Daqahliya" | "Karnataka" |
| "Boyac" | "Tuvassia" | "Pays de la Loire" | "Liepaja" | "Nizni Novgorod" | "Moskova" |
| "Coquimbo" | "Tianjin" | "Khartum" | "Guerrero" | "Drenthe" | "Ivanovo" |
| "Shimane" | "Michoacn de Ocampo" | "Kirov" | "Piura" | "Streymoyar" | "Sarawak" |
| "East Azerbaidzan" | "So Paulo" | "Huanuco" | "Hainan" | "Zhejiang" | "Mogiljov" |
| "Aceh" | "Kermanshah" | "Apulia" | "Campeche" | "Pernambuco" | "Central" |
| "Moscow (City)" | "Dolnoslaskie" | "Qina" | "Shanxi" | "Chiba" | "Ruse" |
| "Ishikawa" | "Gumma" | "Guanajuato" | "North Carolina" | "Tahiti" | "Manab" |
| "Cagayan Valley" | "Nagano" | "Kedah" | "Banjul" | "Hunan" | "Roraima" |
| "Lima" | "Qubec" | "Sagaing" | "Bihar" | "Rabat-Sal-Zammour-Z" | "Crdoba" |
| "Pavlodar" | "Zanzibar West" | "Toscana" | "Lipetsk" | "Jaroslavl" | "Ontario" |
| "Caquet" | "Lubelskie" | "Asir" | "Sawhaj" | "Alto Paran" | "Kang-won" |
| "Southern Tagalog" | "Sucre" | "Jilin" | "Morelos" | "Sulawesi Utara" | "Phnom Penh" |
| "Kalmykia" | "Tatarstan" | "Esfahan" | "Centre" | "Daugavpils" | "Central Luzon" |
| "Texas" | "Rostov-na-Donu" | "Sind" | "Nghe An" | "Ktahya" | "Veracruz" |

5. How many films have a rating of R and a replacement cost between $5 and $15?

Ans: select count(film) from film where rating = 'R' and replacement\_cost > 4.99 and replacement\_cost < 15.01; **52.**

6. How many films have the word Truman somewhere in the title?

Ans: select count(film) from film where title like '%Truman%'; **5.**

7. We want to know what customers are eligible for our platinum credit card. The requirements are that the customer has at least a total of 40 transaction payments. What customers are eligible for the credit card?

Ans: select payment.customer\_id, count(payment.customer\_id) from payment group by customer\_id having count(payment.customer\_id) > 40 or count(payment.customer\_id) = 40 order by count(payment.customer\_id);

|  |  |
| --- | --- |
| 144 | 40 |
| 526 | 42 |
| 148 | 45 |

8. When grouped by rating, what movie ratings have an average rental duration of more than 5 days?

Ans: select rating from film group by rating having avg(film.rental\_duration) > 5;

|  |
| --- |
| "NC-17" |
| "PG" |
| "PG-13" |

9. Create a Jumia table that has the following column User\_id, Username, Password, Email Address, Phone No (fake No) & Location.

Ans:

create table Jumia (

user\_id serial primary key,

username varchar (15) unique,

password varchar (20) not null,

email\_address varchar (300) unique,

phone\_number varchar (11),

location varchar (25));

10. Insert 50 data into the table

Ans:

insert into jumia

(user\_id, username, password, email\_address, phone\_number, location)

Values

(1,'user1','femilola1','rem1@gmail.com','08030004001','benin1'),

(2,'user2','femilola2','rem2@gmail.com','08030004002','benin2'),

(3,'user3','femilola3','rem3@gmail.com','08030004003','benin3'),

(4,'user4','femilola4','rem@gmail.com','08030004004','benin4'),

(5,'user5','femilola5','rem4@gmail.com','08030004005','benin5'),

(6,'user6','femilola6','rem5@gmail.com','08030004006','benin'),

(7,'user7','femilola7','rem6@gmail.com','08030004007','benin7'),

(8,'user8','femilola8','rem7@gmail.com','08030004008','benin8'),

(9,'user9','femilola9','rem8@gmail.com','08030004009','benin9'),

(10,'user10','femilola10','rem9@gmail.com','08030004010','benin10'),

(11,'user11','femilola11','rem10@gmail.com','08030004011','benin11'),

(12,'user12','femilola12','rem11@gmail.com','08030004012','benin12'),

(13,'user13','femilola13','rem12@gmail.com','08030004013','benin13'),

(14,'user14','femilola14','rem13@gmail.com','08030004014','benin14'),

(15,'user15','femilola15','rem14@gmail.com','08030004015','benin15'),

(16,'user16','femilola16','rem15@gmail.com','08030004016','benin16'),

(17,'user17','femilola17','rem16@gmail.com','08030004017','benin17'),

(18,'user18','femilola18','rem17@gmail.com','08030004018','benin18'),

(19,'user19','femilola19','rem18@gmail.com','08030004019','benin19'),

(20,'user20','femilola20','rem19@gmail.com','08030004020','benin20'),

(21,'user21','femilola21','rem20@gmail.com','08030004021','benin21'),

(22,'user22','femilola22','rem21@gmail.com','08030004022','benin22'),

(23,'user23','femilola23','rem22@gmail.com','08030004023','benin23'),

(24,'user24','femilola24','rem23@gmail.com','08030004024','benin24'),

(25,'user25','femilola25','rem24@gmail.com','08030004025','benin25'),

(26,'user26','femilola26','rem25@gmail.com','08030004026','benin26'),

(27,'user27','femilola27','rem26@gmail.com','08030004027','benin27'),

(28,'user28','femilola28','rem27@gmail.com','08030004028','benin28'),

(29,'user29','femilola29','rem28@gmail.com','08030004029','benin29'),

(30,'user30','femilola30','rem29@gmail.com','08030004030','benin30'),

(31,'user31','femilola31','rem30@gmail.com','08030004031','benin31'),

(32,'user32','femilola32','rem31@gmail.com','08030004032','benin32'),

(33,'user33','femilola33','rem32@gmail.com','08030004033','benin33'),

(34,'user34','femilola34','rem33@gmail.com','08030004034','benin34'),

(35,'user35','femilola35','rem34@gmail.com','08030004035','benin35'),

(36,'user36','femilola36','rem35@gmail.com','08030004036','benin36'),

(37,'user37','femilola37','rem36@gmail.com','08030004037','benin37'),

(38,'user38','femilola38','rem37@gmail.com','08030004038','benin38'),

(39,'user39','femilola39','rem40@gmail.com','08030004039','benin39'),

(40,'user40','femilola40','rem41@gmail.com','08030004040','benin40'),

(41,'user41','femilola41','rem42@gmail.com','08030004041','benin41'),

(42,'user42','femilola42','rem424@gmail.com','08030004042','benin42'),

(43,'user43','femilola43','rem43@gmail.com','08030004043','benin43'),

(44,'user44','femilola44','rem44@gmail.com','08030004044','benin44'),

(45,'user45','femilola45','rem45@gmail.com','08030004045','benin45'),

(46,'user46','femilola46','rem46@gmail.com','08030004046','benin46'),

(47,'user47','femilola47','rem47@gmail.com','08030004047','benin47'),

(48,'user48','femilola48','rem48@gmail.com','08030004048','benin48'),

(49,'user49','femilola49','rem49@gmail.com','08030004049','benin49'),

(50,'user50','femilola50','rem50@gmail.com','08030004050','benin50');

select \* from jumia;