

# **DEVELHOPE SQLITE TIME PROJECT**

## **CODE - NUMBER OF CUSTOMER BY CITIES**

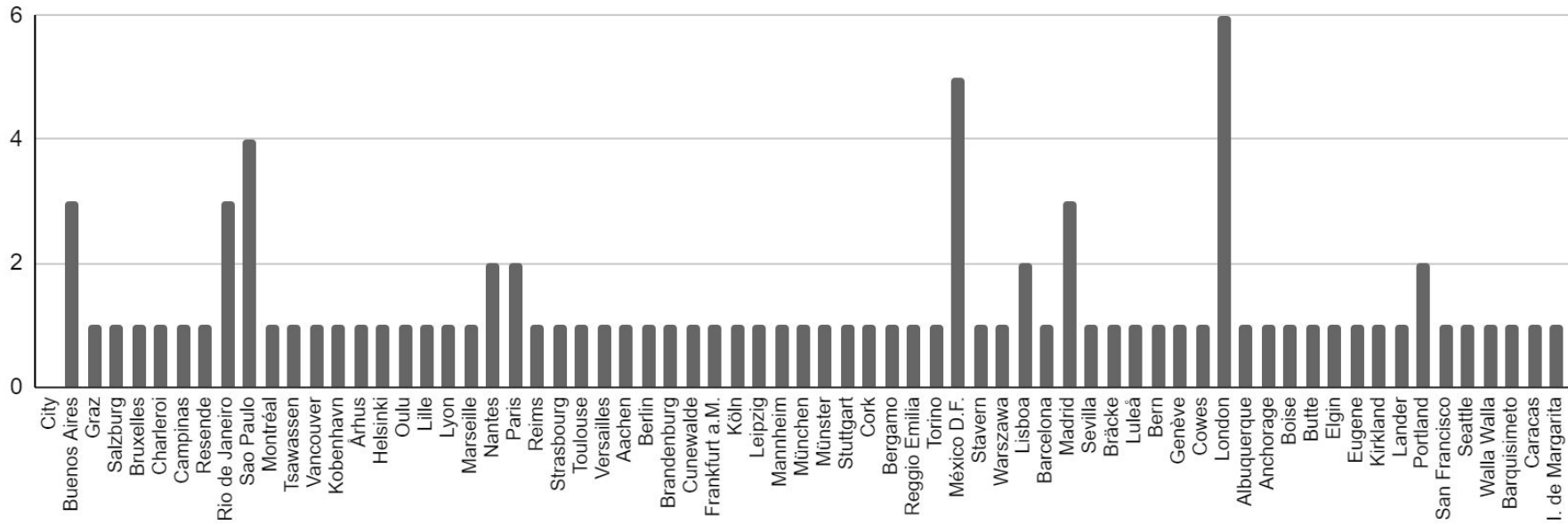
```
CREATE TEMP TABLE IF NOT EXISTS customer_by_city AS  
SELECT Country, City, COUNT(CustomerID)  
FROM Customers c  
GROUP BY Country, City  
  
SELECT * from customer_by_city
```

Number of Customers by Cities		
Country	City	COUNT(CustomerID)
Argentina	Buenos Aires	3
Austria	Graz	1
Austria	Salzburg	1
Belgium	Bruxelles	1
Belgium	Charleroi	1
Brazil	Campinas	1
Brazil	Resende	1
Brazil	Rio de Janeiro	3
Brazil	Sao Paulo	4
Canada	Montréal	1
Canada	Tsawassen	1
Canada	Vancouver	1
Denmark	Kobenhavn	1
Denmark	Århus	1
Finland	Helsinki	1
Finland	Oulu	1
France	Lille	1
France	Lyon	1
France	Marseille	1
France	Nantes	2
France	Paris	2
France	Reims	1
France	Strasbourg	1

Number of Customers by Cities		
Country	City	COUNT(CustomerID)
France	Toulouse	1
France	Versailles	1
Germany	Aachen	1
Germany	Berlin	1
Germany	Brandenburg	1
Germany	Cunewalde	1
Germany	Frankfurt a.M.	1
Germany	Köln	1
Germany	Leipzig	1
Germany	Mannheim	1
Germany	München	1
Germany	Münster	1
Germany	Stuttgart	1
Ireland	Cork	1
Italy	Bergamo	1
Italy	Reggio Emilia	1
Italy	Torino	1
Mexico	México D.F.	5
Norway	Stavern	1
Poland	Warszawa	1
Portugal	Lisboa	2
Spain	Barcelona	1
Spain	Madrid	3

Number of Customers by Cities		
Country	City	COUNT(CustomerID)
Spain	Sevilla	1
Sweden	Bräcke	1
Sweden	Luleå	1
Switzerland	Bern	1
Switzerland	Genève	1
UK	Cowes	1
UK	London	6
USA	Albuquerque	1
USA	Anchorage	1
USA	Boise	1
USA	Butte	1
USA	Elgin	1
USA	Eugene	1
USA	Kirkland	1
USA	Lander	1
USA	Portland	2
USA	San Francisco	1
USA	Seattle	1
USA	Walla Walla	1
Venezuela	Barquisimeto	1
Venezuela	Caracas	1
Venezuela	I. de Margarita	1

# Number of Customers by Cities

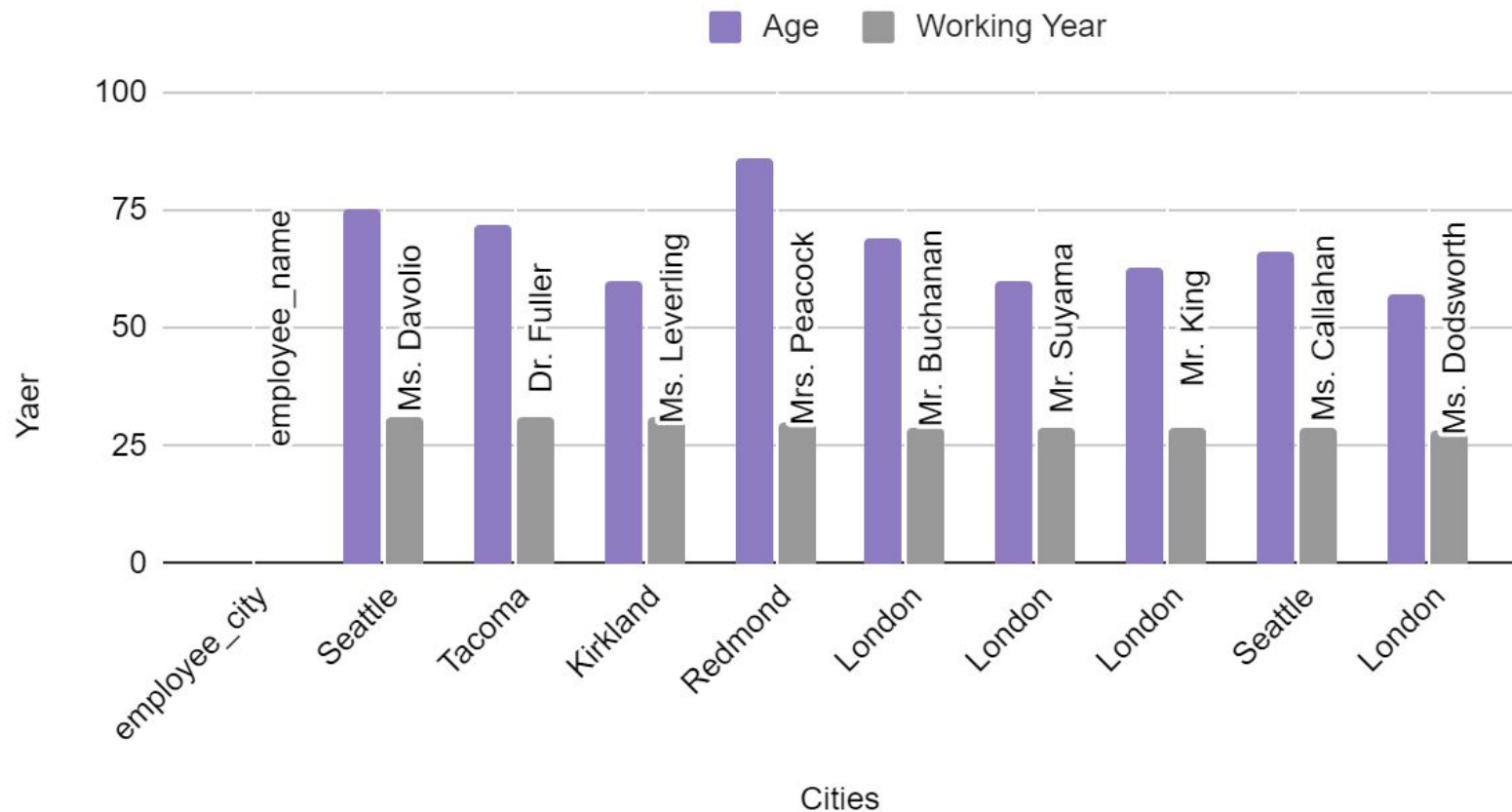


# **CODE - CUSTOMERS' AGE AND WORKING YEAR**

```
CREATE TEMP TABLE IF NOT EXISTS employees_age_temp AS  
SELECT EmployeeID,  
City AS employee_city,  
TitleOfCourtesy || ' ' || LastName AS employee_name,  
ROUND((JULIANDAY('now') - JULIANDAY(BirthDate))/360.25) AS employee_age,  
ROUND((JULIANDAY('now') - JULIANDAY(HireDate))/360.25) AS working_year  
FROM Employees e;  
  
SELECT * FROM employees_age_temp;
```

Customers' Age and Working Year				
EmployeeID	employee_city	employee_name	employee_age	working_year
1	Seattle	Ms. Davolio	75	31
2	Tacoma	Dr. Fuller	72	31
3	Kirkland	Ms. Leverling	60	31
4	Redmond	Mrs. Peacock	86	30
5	London	Mr. Buchanan	69	29
6	London	Mr. Suyama	60	29
7	London	Mr. King	63	29
8	Seattle	Ms. Callahan	66	29
9	London	Ms. Dodsworth	57	28

# Customers' Age and Working Year



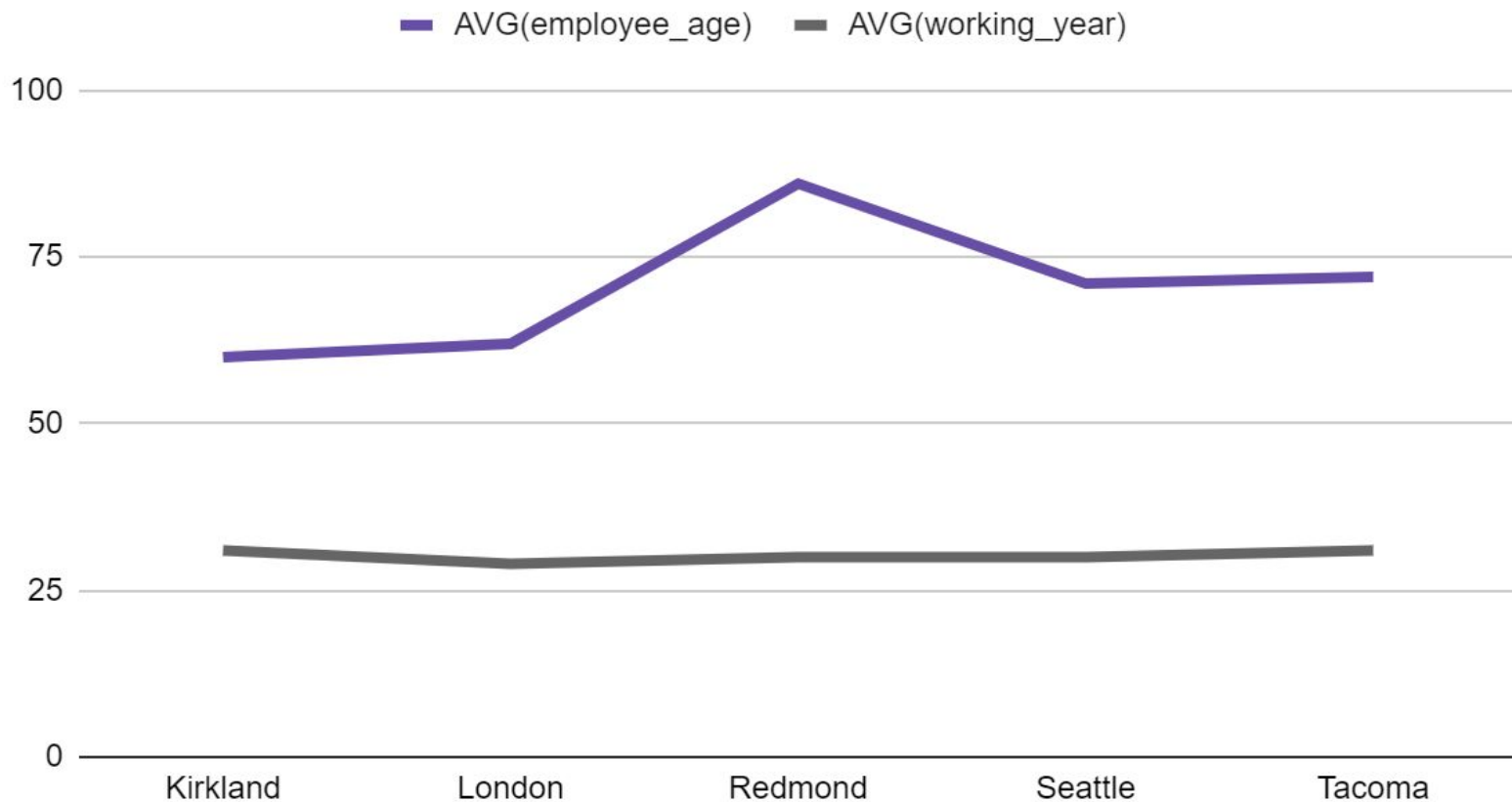
# **CODE- AGE AND SENIORITY CALCULATION OF EMPLOYEES BY CITY**

```
CREATE TEMP TABLE employees_calculation_temp AS  
SELECT  employee_city, COUNT(EmployeeID),  
        MAX(employee_age), MIN(employee_age), ROUND(AVG(employee_age)),  
        MAX(working_year), MIN(working_year), ROUND(AVG(working_year))  
FROM employees_age_temp  
GROUP BY employee_city;  
  
SELECT * FROM employees_calculation_temp;
```



Age and Seniority Calculations of Employees by City							
employee_city	COUNT(Employee ID)	MAX(employee_age)	MIN(employee_age)	AVG(employee_age)	MAX(working_year)	MIN(working_year)	AVG(working_year)
Kirkland	1	60	60	60	31	31	31
London	4	69	57	62	29	28	29
Redmond	1	86	86	86	30	30	30
Seattle	2	75	66	71	31	29	30
Tacoma	1	72	72	72	31	31	31

# The Relationship Between Age and Seniority



# CODE - EMPLOYEES' SENIORITY AND RETIRE STATUS

```
CREATE TEMP TABLE employees_status_temp AS

SELECT  EmployeeID, employee_name, ROUND(employee_age) AS Employee_Age,
        ROUND(working_year) AS Working_Year,
        CASE
            WHEN working_year >= 30 THEN "Senior Staff"
            WHEN working_year < 30 AND  working_year >20 THEN "Medior Staff"
            ELSE "Junior Staff"
        END AS Seniorty_Status,
        CASE
            WHEN employee_age > 65 THEN "Can Retire"
            ELSE "Can't Retire"
        END Retaire_Status
FROM employees_age_temp

GROUP BY EmployeeID;
```

Seniority And Retirement Status					
EmployeeID	employee_name	Employee_Age	Working_Year	Seniority_Status	Retaire_Status
1	Ms. Davolio	75.0	31.0	Senior Staff	Can Retaire
2	Dr. Fuller	72.0	31.0	Senior Staff	Can Retaire
3	Ms. Leverling	60.0	31.0	Senior Staff	Can't Retaire
4	Mrs. Peacock	86.0	30.0	Senior Staff	Can Retaire
5	Mr. Buchanan	69.0	29.0	Medior Staff	Can Retaire
6	Mr. Suyama	60.0	29.0	Medior Staff	Can't Retaire
7	Mr. King	63.0	29.0	Medior Staff	Can't Retaire
8	Ms. Callahan	66.0	29.0	Medior Staff	Can Retaire
9	Ms. Dodsworth	57.0	28.0	Medior Staff	Can't Retaire