Kamaleshs-MacBook-Pro.local::/Users/kamalesh\_das/Desktop/Python/AcadGild$python SQL\_Assignment\_13.py

Select 10 records from the adult sqladb

--------------------------------------------------

age workclass fnlwgt education education\_num marital\_status occupation relationship race sex capital\_gain capital\_loss hours\_per\_week native\_country class

0 39 State-gov 77516 Bachelors 13 Never-married Adm-clerical Not-in-family White Male 2174 0 40 United-States <=50K

1 50 Self-emp-not-inc 83311 Bachelors 13 Married-civ-spouse Exec-managerial Husband White Male 0 0 13 United-States <=50K

2 38 Private 215646 HS-grad 9 Divorced Handlers-cleaners Not-in-family White Male 0 0 40 United-States <=50K

3 53 Private 234721 11th 7 Married-civ-spouse Handlers-cleaners Husband Black Male 0 0 40 United-States <=50K

4 28 Private 338409 Bachelors 13 Married-civ-spouse Prof-specialty Wife Black Female 0 0 40 Cuba <=50K

5 37 Private 284582 Masters 14 Married-civ-spouse Exec-managerial Wife White Female 0 0 40 United-States <=50K

6 49 Private 160187 9th 5 Married-spouse-absent Other-service Not-in-family Black Female 0 0 16 Jamaica <=50K

7 52 Self-emp-not-inc 209642 HS-grad 9 Married-civ-spouse Exec-managerial Husband White Male 0 0 45 United-States >50K

8 31 Private 45781 Masters 14 Never-married Prof-specialty Not-in-family White Female 14084 0 50 United-States >50K

9 42 Private 159449 Bachelors 13 Married-civ-spouse Exec-managerial Husband White Male 5178 0 40 United-States >50K

average hours per week of all men who are working in private sector

----------------------------------------------------------------------

avg(hours\_per\_week)

0 42.221226

requency table for education, occupation and relationship, separately

----------------------------------------------------------------------

education

0 Bachelors

1 HS-grad

2 11th

3 Masters

4 9th

5 Some-college

6 Assoc-acdm

7 Assoc-voc

8 7th-8th

9 Doctorate

10 Prof-school

11 5th-6th

12 10th

13 1st-4th

14 Preschool

15 12th

--------------------------------------------------

occupation

0 Adm-clerical

1 Exec-managerial

2 Handlers-cleaners

3 Prof-specialty

4 Other-service

5 Sales

6 Craft-repair

7 Transport-moving

8 Farming-fishing

9 Machine-op-inspct

10 Tech-support

11 ?

12 Protective-serv

13 Armed-Forces

14 Priv-house-serv

--------------------------------------------------

relationship

0 Not-in-family

1 Husband

2 Wife

3 Own-child

4 Unmarried

5 Other-relative

people who are married, working in private sector and having a masters degree

----------------------------------------------------------------------

count(1)

0 531

average, minimum and maximum age group for people working in different sectors

----------------------------------------------------------------------

occupation avg(age) min(age) max(age)

0 ? 40.882800 17 90

1 Adm-clerical 36.964456 17 90

2 Armed-Forces 30.222222 23 46

3 Craft-repair 39.031471 17 90

4 Exec-managerial 42.169208 17 90

5 Farming-fishing 41.211268 17 90

6 Handlers-cleaners 32.165693 17 90

7 Machine-op-inspct 37.715285 17 90

8 Other-service 34.949621 17 90

9 Priv-house-serv 41.724832 17 81

10 Prof-specialty 40.517633 17 90

11 Protective-serv 38.953775 17 90

12 Sales 37.353973 17 90

13 Tech-support 37.022629 17 73

14 Transport-moving 40.197871 17 90

Calculate age distribution by country

--------------------------------------------------

native\_country avg(age) min(age) max(age)

0 ? 38.725557 17 90

1 Cambodia 37.789474 18 65

2 Canada 42.545455 17 80

3 China 42.533333 22 75

4 Columbia 39.711864 18 75

5 Cuba 45.768421 21 82

6 Dominican-Republic 37.728571 18 78

7 Ecuador 36.642857 21 90

8 El-Salvador 34.132075 17 79

9 England 41.155556 17 90

10 France 38.965517 20 64

11 Germany 39.255474 18 74

12 Greece 46.206897 22 65

13 Guatemala 32.421875 19 66

14 Haiti 38.272727 17 63

15 Holand-Netherlands 32.000000 32 32

16 Honduras 33.846154 18 58

17 Hong 33.650000 19 60

18 Hungary 49.384615 24 81

19 India 38.090000 17 61

20 Iran 39.418605 22 63

21 Ireland 36.458333 23 68

22 Italy 46.424658 19 77

23 Jamaica 35.592593 18 66

24 Japan 38.241935 19 61

25 Laos 34.722222 19 56

26 Mexico 33.290824 17 81

27 Nicaragua 33.617647 19 67

28 Outlying-US(Guam-USVI-etc) 38.714286 21 63

29 Peru 35.258065 17 69

30 Philippines 39.444444 17 90

31 Poland 43.116667 17 85

32 Portugal 40.297297 19 78

33 Puerto-Rico 40.508772 17 90

34 Scotland 40.416667 18 62

35 South 38.750000 19 90

36 Taiwan 33.823529 20 61

37 Thailand 34.944444 19 55

38 Trinadad&Tobago 41.315789 17 61

39 United-States 38.655674 17 90

40 Vietnam 34.059701 19 73

41 Yugoslavia 38.812500 20 66

Compute a new column as Net-Capital-Gain from the two columns capital-gain and capital-loss

----------------------------------------------------------------------------------------------------

age workclass fnlwgt education education\_num marital\_status occupation relationship race sex capital\_gain capital\_loss hours\_per\_week native\_country class Net\_Capital\_Gain

0 39 State-gov 77516 Bachelors 13 Never-married Adm-clerical Not-in-family White Male 2174 0 40 United-States <=50K 2174

1 50 Self-emp-not-inc 83311 Bachelors 13 Married-civ-spouse Exec-managerial Husband White Male 0 0 13 United-States <=50K 0

2 38 Private 215646 HS-grad 9 Divorced Handlers-cleaners Not-in-family White Male 0 0 40 United-States <=50K 0

3 53 Private 234721 11th 7 Married-civ-spouse Handlers-cleaners Husband Black Male 0 0 40 United-States <=50K 0

4 28 Private 338409 Bachelors 13 Married-civ-spouse Prof-specialty Wife Black Female 0 0 40 Cuba <=50K 0

5 37 Private 284582 Masters 14 Married-civ-spouse Exec-managerial Wife White Female 0 0 40 United-States <=50K 0

6 49 Private 160187 9th 5 Married-spouse-absent Other-service Not-in-family Black Female 0 0 16 Jamaica <=50K 0

7 52 Self-emp-not-inc 209642 HS-grad 9 Married-civ-spouse Exec-managerial Husband White Male 0 0 45 United-States >50K 0

8 31 Private 45781 Masters 14 Never-married Prof-specialty Not-in-family White Female 14084 0 50 United-States >50K 14084

9 42 Private 159449 Bachelors 13 Married-civ-spouse Exec-managerial Husband White Male 5178 0 40 United-States >50K 5178

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