

```
In [78]: # Import
import random
import numpy as np
import pandas as pd
import sqlite3
```

```
In [79]: adult_data_set = pd.read_csv('https://archive.ics.uci.edu/ml/machine-learning-
databases/adult/adult.data')
adult_data_set.head(3)
```

Out[79]:

	39	State- gov	77516	Bachelors	13	Never- married	Adm- clerical	Not-in- family	White	Male	2174	0
0	50	Self-emp-not-inc	83311	Bachelors	13	Married-civ-spouse	Exec-managerial	Husband	White	Male	0	0
1	38	Private	215646	HS-grad	9	Divorced	Handlers-cleaners	Not-in-family	White	Male	0	0
2	53	Private	234721	11th	7	Married-civ-spouse	Handlers-cleaners	Husband	Black	Male	0	0

```
In [80]: adult_data_set.columns =["age","workclass","fnlwgt","education","education_num",
"marital_status","occupation","relationship","race","sex","capital_gain","c
apital_loss","hours_per_week","native_country","income"]
adult_data_set.head(3)
```

Out[80]:

	age	workclass	fnlwgt	education	education_num	marital_status	occupation	relatic
0	50	Self-emp-not-inc	83311	Bachelors	13	Married-civ-spouse	Exec-managerial	Husba
1	38	Private	215646	HS-grad	9	Divorced	Handlers-cleaners	Not-in-
2	53	Private	234721	11th	7	Married-civ-spouse	Handlers-cleaners	Husba

```
In [81]: import sqlalchemy
from sqlalchemy import create_engine
engine = create_engine('sqlite:///sqladb', echo=False)
```

```
In [82]: adult_data_set.to_sql('sqladb', engine, if_exists='replace')
```

```
In [83]: connection = sqlite3.connect("sqladb")
        cursor = connection.cursor()
```

```
In [84]: cursor.execute('UPDATE sqladb SET workclass = "Self Employed" WHERE workclass
        = " Self-emp-not-inc"')
        print(pd.read_sql_query("SELECT * FROM sqladb", connection).head(3))
```

	index	age	workclass	fnlwgt	education	education_num	\
0	0	50	Self Employed	83311	Bachelors	13	
1	1	38	Private	215646	HS-grad	9	
2	2	53	Private	234721	11th	7	

	marital_status	occupation	relationship	race	sex	\
0	Married-civ-spouse	Exec-managerial	Husband	White	Male	
1	Divorced	Handlers-cleaners	Not-in-family	White	Male	
2	Married-civ-spouse	Handlers-cleaners	Husband	Black	Male	

	capital_gain	capital_loss	hours_per_week	native_country	income
0	0	0	13	United-States	<=50K
1	0	0	40	United-States	<=50K
2	0	0	40	United-States	<=50K

```
In [85]: cursor.execute('UPDATE sqladb SET education = "HS" WHERE education = " HS-gra
        d"')
        print(pd.read_sql_query("SELECT * FROM sqladb", connection).head(3))
```

	index	age	workclass	fnlwgt	education	education_num	\
0	0	50	Self Employed	83311	Bachelors	13	
1	1	38	Private	215646	HS	9	
2	2	53	Private	234721	11th	7	

	marital_status	occupation	relationship	race	sex	\
0	Married-civ-spouse	Exec-managerial	Husband	White	Male	
1	Divorced	Handlers-cleaners	Not-in-family	White	Male	
2	Married-civ-spouse	Handlers-cleaners	Husband	Black	Male	

	capital_gain	capital_loss	hours_per_week	native_country	income
0	0	0	13	United-States	<=50K
1	0	0	40	United-States	<=50K
2	0	0	40	United-States	<=50K

```
In [86]: cursor.execute('DELETE FROM sqladb WHERE fnlwgt = " 83311"')
print(pd.read_sql_query("SELECT * FROM sqladb", connection).head(3))
```

	index	age	workclass	fnlwgt	education	education_num	\
0	1	38	Private	215646	HS	9	
1	2	53	Private	234721	11th	7	
2	3	28	Private	338409	Bachelors	13	

	marital_status	occupation	relationship	race	sex
0	Divorced	Handlers-cleaners	Not-in-family	White	Male
1	Married-civ-spouse	Handlers-cleaners	Husband	Black	Male
2	Married-civ-spouse	Prof-specialty	Wife	Black	Female

	capital_gain	capital_loss	hours_per_week	native_country	income
0	0	0	40	United-States	<=50K
1	0	0	40	United-States	<=50K
2	0	0	40	Cuba	<=50K

```
In [87]: cursor.execute('DELETE FROM sqladb WHERE age=" 38"')
print(pd.read_sql_query("SELECT * FROM sqladb", connection).head(3))
```

	index	age	workclass	fnlwgt	education	education_num	\
0	2	53	Private	234721	11th	7	
1	3	28	Private	338409	Bachelors	13	
2	4	37	Private	284582	Masters	14	

	marital_status	occupation	relationship	race	sex	\
0	Married-civ-spouse	Handlers-cleaners	Husband	Black	Male	
1	Married-civ-spouse	Prof-specialty	Wife	Black	Female	
2	Married-civ-spouse	Exec-managerial	Wife	White	Female	

	capital_gain	capital_loss	hours_per_week	native_country	income
0	0	0	40	United-States	<=50K
1	0	0	40	Cuba	<=50K
2	0	0	40	United-States	<=50K

```
In [88]: cursor.execute('SELECT DISTINCT * FROM sqladb WHERE age = " 28" AND age < 37 AND workclass = " Private" and native_country=" India"')
output = cursor.fetchall()
print(output)
```

```
[(891, 28, ' Private', 164170, ' Assoc-voc', 11, ' Married-civ-spouse', ' Adm-clerical', ' Wife', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India', '<=50K'), (24871, 28, ' Private', 191342, ' Some-college', 10, ' Never-married', ' Sales', ' Not-in-family', ' Other', ' Male', 0, 0, 40, ' India', '<=50K')]
```

```
In [90]: cursor.execute('SELECT * FROM sqladb WHERE age=" 33" and native_country=" India"')
output = cursor.fetchall()
print(output)
```

```
[(10304, 33, ' Private', 357954, 'HS', 9, ' Married-civ-spouse', ' Handlers
-cleaners', ' Husband', ' White', ' Male', 0, 0, 35, ' India', ' <=50K'),
(27243, 33, ' State-gov', 200289, ' Masters', 14, ' Married-civ-spouse', '
Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 19, ' In
dia', ' <=50K'), (27973, 33, ' Private', 173858, ' Bachelors', 13, ' Marrie
d-civ-spouse', ' Adm-clerical', ' Other-relative', ' Asian-Pac-Islander', '
Male', 0, 0, 40, ' India', ' <=50K')]
```

```
In [109]: def fun_one():

    connection = sqlite3.connect("sqladb")
    cursor = connection.cursor()
    cursor.execute('delete from sqladb WHERE age = " 58"')
    print(pd.read_sql_query("SELECT * FROM sqladb", connection).tail(3))
    connection.close()
```

```
fun_one()
```

	index	age	workclass	fnlwgt	education	education_num	\
32191	32556	40	Private	154374	HS-grad	9	
32192	32558	22	Private	201490	HS-grad	9	
32193	32559	52	Self-emp-inc	287927	HS-grad	9	

	marital_status	occupation	relationship	race	sex
32191	Married-civ-spouse	Machine-op-inspct	Husband	White	Male
32192	Never-married	Adm-clerical	Own-child	White	Male
32193	Married-civ-spouse	Exec-managerial	Wife	White	Female

	capital_gain	capital_loss	hours_per_week	native_country	income
32191	0	0	40	United-States	>50K
32192	0	0	20	United-States	<=50K
32193	15024	0	40	United-States	>50K

```
In [106]: adult_data_set.tail(3)
```

Out[106]:

	age	workclass	fnlwgt	education	education_num	marital_status	occupation	race
32557	58	Private	151910	HS-grad	9	Widowed	Adm-clerical	U
32558	22	Private	201490	HS-grad	9	Never-married	Adm-clerical	C
32559	52	Self-emp-inc	287927	HS-grad	9	Married-civ-spouse	Exec-managerial	V

```
In [95]: connection = sqlite3.connect("sqladb")
         cursor = connection.cursor()
         cursor.execute('SELECT * FROM sqladb WHERE native_country = " India"')
         output = cursor.fetchall()
         print(output)
```

[(10, 30, ' State-gov', 141297, ' Bachelors', 13, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (891, 28, ' Private', 164170, ' Assoc-voc', 11, ' Married-civ-spouse', ' Adm-clerical', ' Wife', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India', ' <=50K'), (967, 48, ' Private', 164966, ' Bachelors', 13, ' Married-civ-spouse', ' Exec-managerial', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (1028, 48, ' Self-emp-inc', 138370, ' Masters', 14, ' Married-spouse-absent', ' Sales', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 50, ' India', ' <=50K'), (1094, 22, ' Self-emp-not-inc', 361280, ' Bachelors', 13, ' Never-married', ' Prof-specialty', ' Own-child', ' Asian-Pac-Islander', ' Male', 0, 0, 20, ' India', ' <=50K'), (1326, 52, ' Private', 168381, ' HS-grad', 9, ' Widowed', ' Other-service', ' Unmarried', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India', ' >50K'), (2129, 28, ' State-gov', 130620, ' 11th', 7, ' Separated', ' Adm-clerical', ' Unmarried', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India', ' <=50K'), (2557, 58, ' State-gov', 110517, ' Doctorate', 16, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 4064, 0, 40, ' India', ' <=50K'), (2988, 44, ' Private', 178385, ' Masters', 14, ' Married-civ-spouse', ' Exec-managerial', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 48, ' India', ' <=50K'), (4479, 30, ' Private', 302149, ' Bachelors', 13, ' Married-civ-spouse', ' Sales', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (4511, 29, ' Private', 193260, ' Bachelors', 13, ' Married-civ-spouse', ' Craft-repair', ' Other-relative', ' Asian-Pac-Islander', ' Male', 0, 0, 30, ' India', ' <=50K'), (4522, 57, ' Local-gov', 148509, ' Bachelors', 13, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 35, ' India', ' <=50K'), (5628, 46, ' Private', 199316, ' Some-college', 10, ' Married-civ-spouse', ' Craft-repair', ' Other-relative', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (6218, 46, ' Private', 175262, ' Assoc-acdm', 12, ' Married-civ-spouse', ' Adm-clerical', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (6320, 20, ' Private', 116666, ' Some-college', 10, ' Never-married', ' Sales', ' Own-child', ' Asian-Pac-Islander', ' Male', 0, 0, 8, ' India', ' <=50K'), (6559, 26, ' State-gov', 203279, ' Prof-school', 15, ' Never-married', ' Prof-specialty', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 2463, 0, 50, ' India', ' <=50K'), (6963, 29, ' Private', 87507, ' Doctorate', 16, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 60, ' India', ' <=50K'), (7257, 42, ' State-gov', 102343, ' Prof-school', 15, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 72, ' India', ' >50K'), (7284, 54, ' State-gov', 93449, ' Masters', 14, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (7843, 35, ' Private', 107302, ' Masters', 14, ' Married-civ-spouse', ' Sales', ' Husband', ' White', ' Male', 0, 0, 40, ' India', ' <=50K'), (7931, 29, ' Private', 130620, ' Some-college', 10, ' Married-spouse-absent', ' Sales', ' Own-child', ' Asian-Pac-Islander', ' Female', 0, 0, 26, ' India', ' <=50K'), (8123, 36, ' Private', 172104, ' Prof-school', 15, ' Never-married', ' Prof-specialty', ' Not-in-family', ' Other', ' Male', 0, 0, 40, ' India', ' >50K'), (9127, 18, ' Self-emp-inc', 119422, ' HS-grad', 9, ' Never-married', ' Other-service', ' Unmarried', ' Asian-Pac-Islander', ' Female', 0, 0, 30, ' India', ' <=50K'), (9532, 48, ' Self-emp-not-inc', 167918, ' Masters', 14, ' Married-civ-spouse', ' Sales', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 50, ' India', ' <=50K'), (9792, 45, ' State-gov', 94754, ' Masters', 14, ' Married-civ-spouse', ' Adm-clerical', ' Husband', ' White', ' Male', 0, 0, 40, ' India', ' <=50K'), (9938, 43, ' Federal-gov', 325706, ' Prof-school', 15, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 50, ' India', ' >50K'), (10106, 31, ' P

rivate', 341672, ' Bachelors', 13, ' Married-civ-spouse', ' Adm-clerical',
 ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 60, ' India', ' <=50K'),
 (10304, 33, ' Private', 357954, ' HS-grad', 9, ' Married-civ-spouse', ' Han
 dlers-cleaners', ' Husband', ' White', ' Male', 0, 0, 35, ' India', ' <=50
 K'), (10589, 35, ' Private', 98283, ' Prof-school', 15, ' Never-married', '
 Prof-specialty', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 4
 0, ' India', ' >50K'), (10660, 59, ' Private', 122283, ' Prof-school', 15,
 ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islande
 r', ' Male', 99999, 0, 40, ' India', ' >50K'), (10735, 30, ' Private', 2431
 90, ' Prof-school', 15, ' Married-civ-spouse', ' Prof-specialty', ' Husban
 d', ' Asian-Pac-Islander', ' Male', 0, 0, 20, ' India', ' >50K'), (11259, 5
 4, ' Private', 225599, ' Masters', 14, ' Married-civ-spouse', ' Prof-specia
 lty', ' Husband', ' Asian-Pac-Islander', ' Male', 7298, 0, 40, ' India', '
 >50K'), (11383, 34, ' Private', 98283, ' Prof-school', 15, ' Never-marrie
 d', ' Tech-support', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 1
 564, 40, ' India', ' >50K'), (11755, 36, ' Private', 99872, ' HS-grad', 9,
 ' Married-civ-spouse', ' Craft-repair', ' Husband', ' Asian-Pac-Islander',
 ' Male', 0, 0, 40, ' India', ' <=50K'), (11834, 38, ' Private', 167725, ' B
 achelors', 13, ' Married-spouse-absent', ' Transport-moving', ' Not-in-fami
 ly', ' Other', ' Male', 0, 0, 84, ' India', ' <=50K'), (12367, 24, ' Privat
 e', 108495, ' Some-college', 10, ' Never-married', ' Adm-clerical', ' Own-c
 hild', ' White', ' Male', 0, 0, 40, ' India', ' <=50K'), (12794, 22, ' Priv
 ate', 320451, ' Some-college', 10, ' Never-married', ' Protective-serv', '
 Own-child', ' Asian-Pac-Islander', ' Male', 0, 0, 24, ' India', ' <=50K'),
 (13421, 53, ' Private', 366957, ' Bachelors', 13, ' Married-civ-spouse', '
 Exec-managerial', ' Husband', ' Asian-Pac-Islander', ' Male', 99999, 0, 50,
 ' India', ' >50K'), (13550, 40, ' Private', 220977, ' Doctorate', 16, ' Mar
 ried-civ-spouse', ' Exec-managerial', ' Husband', ' Asian-Pac-Islander', '
 Male', 3103, 0, 40, ' India', ' >50K'), (13861, 45, ' Private', 209912, ' B
 achelors', 13, ' Married-civ-spouse', ' Exec-managerial', ' Husband', ' Asi
 an-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (14040, 50, ' Self
 -emp-inc', 104849, ' Prof-school', 15, ' Married-civ-spouse', ' Prof-specia
 lty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=5
 0K'), (14684, 36, ' Private', 110998, ' Masters', 14, ' Widowed', ' Tech-su
 pport', ' Unmarried', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India',
 ' <=50K'), (15697, 32, ' Private', 31740, ' Masters', 14, ' Married-civ-spo
 use', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0,
 40, ' India', ' <=50K'), (16016, 41, ' Private', 207578, ' Assoc-acdm', 12,
 ' Married-civ-spouse', ' Exec-managerial', ' Husband', ' Black', ' Male',
 0, 0, 50, ' India', ' >50K'), (16335, 47, ' Private', 191411, ' Masters', 1
 4, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Island
 er', ' Male', 0, 0, 45, ' India', ' <=50K'), (16777, 43, ' Private', 24296
 8, ' Masters', 14, ' Married-civ-spouse', ' Exec-managerial', ' Husband', '
 Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (16922, 41, ' P
 rivate', 143003, ' Assoc-voc', 11, ' Married-civ-spouse', ' Other-service',
 ' Husband', ' Asian-Pac-Islander', ' Male', 7298, 0, 60, ' India', ' >50
 K'), (17258, 57, ' Self-emp-inc', 123053, ' Prof-school', 15, ' Married-civ
 -spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 15
 024, 0, 50, ' India', ' >50K'), (17833, 29, ' Self-emp-not-inc', 341672, '
 HS-grad', 9, ' Married-spouse-absent', ' Transport-moving', ' Other-relativ
 e', ' Asian-Pac-Islander', ' Male', 0, 1564, 50, ' India', ' >50K'), (1855
 5, 26, ' State-gov', 147719, ' Bachelors', 13, ' Never-married', ' Prof-spe
 cialty', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 20, ' Indi
 a', ' <=50K'), (18967, 27, ' Private', 154210, ' 11th', 7, ' Married-spouse
 -absent', ' Sales', ' Own-child', ' Asian-Pac-Islander', ' Male', 0, 0, 35,
 ' India', ' <=50K'), (19925, 27, ' Private', 236481, ' Prof-school', 15, '
 Never-married', ' Prof-specialty', ' Not-in-family', ' Asian-Pac-Islander',

' Male', 0, 0, 10, ' India', ' <=50K'), (19958, 45, ' Private', 175262, ' 9th', 5, ' Married-civ-spouse', ' Handlers-cleaners', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (20416, 42, ' Self-emp-inc', 23510, ' Masters', 14, ' Divorced', ' Exec-managerial', ' Unmarried', ' Asian-Pac-Islander', ' Male', 0, 2201, 60, ' India', ' >50K'), (20464, 39, ' Private', 198654, ' Prof-school', 15, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 2415, 67, ' India', ' >50K'), (20708, 24, ' State-gov', 147719, ' Masters', 14, ' Never-married', ' Prof-specialty', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 20, ' India', ' <=50K'), (21127, 30, ' Private', 122889, ' Masters', 14, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 50, ' India', ' >50K'), (21129, 49, ' Private', 176341, ' Bachelors', 13, ' Never-married', ' Tech-support', ' Unmarried', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India', ' <=50K'), (22430, 59, ' Private', 138370, ' 10th', 6, ' Married-spouse-absent', ' Protective-serv', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (22878, 25, ' Private', 103358, ' Some-college', 10, ' Never-married', ' Machine-op-inspct', ' Own-child', ' White', ' Male', 0, 0, 40, ' India', ' <=50K'), (23021, 34, ' Self-emp-not-inc', 100079, ' Bachelors', 13, ' Married-civ-spouse', ' Sales', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 55, ' India', ' <=50K'), (23473, 55, ' State-gov', 120781, ' Doctorate', 16, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (23890, 49, ' Private', 138370, ' Masters', 14, ' Married-spouse-absent', ' Protective-serv', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (24153, 46, ' Private', 229737, ' Bachelors', 13, ' Married-civ-spouse', ' Sales', ' Husband', ' White', ' Male', 0, 0, 50, ' India', ' >50K'), (24174, 54, ' Private', 349340, ' Preschool', 1, ' Married-civ-spouse', ' Craft-repair', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' <=50K'), (24871, 28, ' Private', 191342, ' Some-college', 10, ' Never-married', ' Sales', ' Not-in-family', ' Other', ' Male', 0, 0, 40, ' India', ' <=50K'), (24980, 43, ' Self-emp-inc', 140988, ' Bachelors', 13, ' Married-civ-spouse', ' Sales', ' Other-relative', ' Asian-Pac-Islander', ' Male', 0, 0, 45, ' India', ' <=50K'), (25375, 21, ' Private', 156687, ' Some-college', 10, ' Never-married', ' Sales', ' Own-child', ' Asian-Pac-Islander', ' Male', 0, 0, 30, ' India', ' <=50K'), (25661, 61, ' Private', 124242, ' HS-grad', 9, ' Married-civ-spouse', ' Protective-serv', ' Husband', ' Black', ' Male', 0, 0, 40, ' India', ' <=50K'), (25738, 35, ' Self-emp-inc', 79586, ' Masters', 14, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (25896, 31, ' Private', 130620, ' 11th', 7, ' Married-spouse-absent', ' Sales', ' Own-child', ' Asian-Pac-Islander', ' Female', 0, 0, 40, ' India', ' <=50K'), (26304, 27, ' Private', 207352, ' Bachelors', 13, ' Married-civ-spouse', ' Tech-support', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 40, ' India', ' >50K'), (26320, 35, ' Private', 176123, ' 10th', 6, ' Married-civ-spouse', ' Other-service', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 60, ' India', ' <=50K'), (26355, 34, ' Private', 99872, ' Masters', 14, ' Married-civ-spouse', ' Exec-managerial', ' Husband', ' Asian-Pac-Islander', ' Male', 3103, 0, 40, ' India', ' >50K'), (27169, 47, ' Private', 334679, ' Masters', 14, ' Separated', ' Machine-op-inspct', ' Unmarried', ' Asian-Pac-Islander', ' Female', 0, 0, 42, ' India', ' <=50K'), (27243, 33, ' State-gov', 200289, ' Masters', 14, ' Married-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', ' Male', 0, 0, 19, ' India', ' <=50K'), (27288, 55, ' Private', 135803, ' Bachelors', 13, ' Married-civ-spouse', ' Exec-managerial', ' Husband', ' Other', ' Male', 0, 1579, 35, ' India', ' <=50K'), (27658, 31, ' Private', 137367, ' 11th', 7, ' Married-spouse-absent', ' Handlers-cleaners', ' Not-in-family', ' Asian-Pac-Islander', ' Male', 0, 0, 4

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0, ' India', ' <=50K'), (27669, 61, ' Private', 80896, ' Masters', 14, ' Ma
rried-civ-spouse', ' Prof-specialty', ' Husband', ' Asian-Pac-Islander', '
Male', 0, 0, 45, ' India', ' >50K'), (27888, 17, ' Private', 56536, ' 11t
h', 7, ' Never-married', ' Sales', ' Own-child', ' White', ' Female', 1055,
0, 18, ' India', ' <=50K'), (27903, 31, ' Private', 341672, ' Some-colleg
e', 10, ' Married-civ-spouse', ' Adm-clerical', ' Husband', ' Asian-Pac-Isl
ander', ' Male', 0, 0, 50, ' India', ' <=50K'), (27973, 33, ' Private', 173
858, ' Bachelors', 13, ' Married-civ-spouse', ' Adm-clerical', ' Other-rela
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```

```
In [96]: def age_check():
          connection = sqlite3.connect("sqladb")
          cursor = connection.cursor()
          cursor.execute('SELECT avg(age) FROM sqladb WHERE marital_status=" Divorced" AND sex=" Male"')
          output = cursor.fetchall()
          print(output)
          connection.close()

          age_check()

[(42.688311688311686,)]
```