C:\Python27>python Json\_Cr4\_SQL\_StudentsCoursesUniv.py

PROGRAM reads a data file: Universities listed, with details: also 11 official l

anguages of South-Africa, spoken by number of people, and percentage of total la

nguages.

UNIVERSITIES

Retrieved 11 items in list

Institution: University of Cape Town

Nickname: Ikeys UCT

Founded: 01101829

University\_status\_date: 02041918

Total students: 27990

Location: Cape Town

Medium: English

Institution: University of Fort Hare

Nickname: UFH

Founded: 01011916

University\_status\_date: 01011916

Total students: 11074

Location: Alice, East London, Bhisho

Medium: English

Institution: University of Free State

Nickname: Kovsies UFS

Founded: 28011904

University\_status\_date: 01011950

Total students: 26275

Location: Bloemfontein, QwaQwa

Medium: Afrikaans

Institution: University of KwaZulu-Natal

Nickname: UKZN Natal

Founded: 01012004

University\_status\_date: 01012004

Total students: 37850

Location: Durban, Pietermaritzburg, Pinetown, Westville

Medium: English

Institution: University of Limpopo

Nickname: Turfloop

Founded: 01012005

University\_status\_date: 01012005

Total students: 20600

Location: Polokwane

Medium: English

Institution: North-West University

Nickname: NWU Pukke Potch

Founded: 01012004

University\_status\_date: 01012004

Total students: 44008

Location: Mafikeng, Mankwe, Potchefstroom, Vanderbijlpark

Medium: Setswana

Institution: University of Pretoria

Nickname: Tuks Tukkies UP

Founded: 04031908

University\_status\_date: 10101930

Total students: 38934

Location: Pretoria, Johannesburg

Medium: English

Institution: University of Pretoria

Nickname: Tuks Tukkies UP

Founded: 04031908

University\_status\_date: 10101930

Total students: 38934

Location: Pretoria, Johannesburg

Medium: Afrikaans

Institution: University of Stellenbosch

Nickname: Maties, Stellies

Founded: 01011866

University\_status\_date: 02041918

Total students: 2792782390

Location: Stellenbosch, Saldanha Bay, Bellville, Tygerberg

Medium: Afrikaans

Institution: University of Western Cape

Nickname: UWC Bush U Dubs

Founded: 01011959

University\_status\_date: 01011970

Total students: 15226

Location: Bellville (Cape Town)

Medium: English

Institution: University of Witwatersrand

Nickname: Wits, Witsies

Founded: 01011896

University\_status\_date: 01011922

Total students: 27934

Location: Johannesburg

Medium: English

Retrieved 11 items in list

Language: Afrikaans

Number spoken: 6855082

Percent: 0.135 %

Language: English

Number spoken: 4892623

Percent: 0.096 %

Language: Ndebele

Number spoken: 1090223

Percent: 0.021 %

Language: Xhosa

Number spoken: 8154258

Percent: 0.16 %

Language: Zulu

Number spoken: 11587374

Percent: 0.227 %

Language: Sepedi

Number spoken: 4618576

Percent: 0.091 %

Language: Sotho

Number spoken: 3849563

Percent: 0.076 %

Language: Tswana

Number spoken: 4067248

Percent: 0.08 %

Language: Swazi

Number spoken: 1297046

Percent: 0.025 %

Language: Venda

Number spoken: 1209388

Percent: 0.024 %

Language: Tsonga

Number spoken: 2277148

Percent: 0.045 %

Retrieved 4 items in list

Student\_no: 1971031702666590

Name: JEH Marais

ID no: 197103170200085

Birth date: 17/03/1971

Address: 5 Hillcrest road, Hatfield, Pretoria

Cell no: 0828029237

Student\_no: 1972050902663420

Name: JA Gutter

ID no: 197205090200593

Birth date: 09/05/1972

Address: 3 Flower road, White River Estate, Mpumalanga

Cell no: 0825205425

Student\_no: 1981122606893670

Name: D Pienaar

ID no: 198112268902667

Birth date: 26/12/1981

Address: 49 Kierie road, Silverton, Pretoria

Cell no: 0879876434

Student\_no: 1975110123490670

Name: SL van Niekerk

ID no: 197511013789089

Birth date: 01/11/1975

Address: 30 Toslyn ave, Waterkloofglen, Pretoria

Cell no: 0719876689

Retrieved 6 items in list

Student\_no: 1971031702666590

Institution: University of Pretoria

Course: BSc Biochemistry

Student\_no: 1971031702666590

Institution: North-West University

Course: BA French

Student\_no: 1972050902663420

Institution: University of Pretoria

Course: BSc Agric. Eng.

Student\_no: 1972050902663420

Institution: University of Pretoria

Course: B Agricultaral

Student\_no: 1975110123490670

Institution: University of the Witwatersrand

Course: Bsc Chem Eng.

Student\_no: 1981122606893670

Institution: North-West University

Course: B Eng Finance

OUTPUT 1: PRINT rows in Universities info table.

Institution Nickname Founded University\_status Total\_students Location

Medium/Language

University of Stellenbosch Maties, Stellies 01011866 02041918 2792782

390 Stellenbosch, Saldanha Bay, Bellville, Tygerberg Afrikaans

North-West University NWU Pukke Potch 01012004 01012004 44008 Ma

fikeng, Mankwe, Potchefstroom, Vanderbijlpark Setswana

University of Pretoria Tuks Tukkies UP 04031908 10101930 38934 P

retoria, Johannesburg English

University of Pretoria Tuks Tukkies UP 04031908 10101930 38934 P

retoria, Johannesburg Afrikaans

University of KwaZulu-Natal UKZN Natal 01012004 01012004 37850 Du

rban, Pietermaritzburg, Pinetown, Westville English

University of Cape Town Ikeys UCT 01101829 02041918 27990 Cape To

wn English

University of Witwatersrand Wits, Witsies 01011896 01011922 27934

Johannesburg English

University of Free State Kovsies UFS 28011904 01011950 26275 Bloe

mfontein, QwaQwa Afrikaans

University of Limpopo Turfloop 01012005 01012005 20600 Polokwane

English

University of Western Cape UWC Bush U Dubs 01011959 01011970 15226

Bellville (Cape Town) English

University of Fort Hare UFH 01011916 01011916 11074 Alice, East Lo

ndon, Bhisho English

OUTPUT 2: PRINT rows in Languages info table: 11 official languages of South-Afr

ica, spoken by number of people.

Language Number\_spoken Percent\_of\_total\_languages

Zulu 11587374 0.227

Xhosa 8154258 0.16

Afrikaans 6855082 0.135

English 4892623 0.096

Sepedi 4618576 0.091

Tswana 4067248 0.08

Sotho 3849563 0.076

Tsonga 2277148 0.045

Swazi 1297046 0.025

Venda 1209388 0.024

Ndebele 1090223 0.021

OUTPUT 3: PRINT rows in Students info table.

Student\_no Name ID\_no Birth\_date Address Cell\_no

1971031702666590 JEH Marais 197103170200085 17/03/1971 5 Hillcrest ro

ad, Hatfield, Pretoria

1972050902663420 JA Gutter 197205090200593 09/05/1972 3 Flower road,

White River Estate, Mpumalanga

1981122606893670 D Pienaar 198112268902667 26/12/1981 49 Kierie road,

Silverton, Pretoria

1975110123490670 SL van Niekerk 197511013789089 01/11/1975 30 Toslyn

ave, Waterkloofglen, Pretoria

OUTPUT 3b: PRINT rows in Students course table.

Student\_no Institution Course

1971031702666590 University of Pretoria BSc Biochemistry

1971031702666590 North-West University BA French

1972050902663420 University of Pretoria BSc Agric. Eng.

1972050902663420 University of Pretoria B Agricultaral

1975110123490670 University of the Witwatersrand Bsc Chem Eng.

1981122606893670 North-West University B Eng Finance

OUTPUT 4: User enters a student no, print Student and their courses subscribed,

and its student detail, the language of that University, using Combined SQL.

Student\_no StudentName Stud\_Address Course Institution Univ\_language

Please enter a student number: 1972050902663420

1972050902663420 JA Gutter 3 Flower road, White River Estate, Mpumalanga U

niversity of Pretoria B Agricultaral

1972050902663420 JA Gutter 3 Flower road, White River Estate, Mpumalanga U

niversity of Pretoria BSc Agric. Eng.

C:\Python27>