**Practical Exercises**

Use SPSS to arrange the following data sets

1. A data set from a survey on employees of a company

Note: Make the Spss document to accept the choises as 1,2, 3,4 and 5 for the fields RACE, ReLIGEON, AGE, DEPT and MAR

**NAME –** the name of the employee

**RACE** – record the race of the employee. There are 5 answers for the variable they are Sinhala, tamil, burger, Malay, other.

**RELIGEON** – record the religion of the employee. There are 4 answers for this variable namely Buddhist, Christian, Hindu, Muslim

**AGE-** record the age of the employee, in 3 categories. They are 18 -25, 26- 36, 37- 60

**DEPT** – Record the working department of the employee. There are departments namely accounts, transport, human resource, customer care.

**BSAL** - Record the Basic salary of the employee. This must be recorded as the exact value.

**MEM** – Number of family members. This can be recorded as a numerical value

**MAR –** marital state of the employee. Either married or unmarried

Enter the following values to the created sheet above.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Race** | **Religion** | **Age** | **Dept** | **Bsal** | **Mem** | **Mar** |
| Sunil | Sinhala | Buddhist | 43 | customer care | 25,000 | 2 | Married |
| Kamal | Tamil | Hindu | 21 | accounts | 18,000 | 3 | Married |
| Nimal | Malay | Hindu | 33 | human resource | 21,500 | 4 | Unmarried |
| Ranil | Tamil | Cristian | 32 | accounts | 37,150 | 3 | Married |
| Anne | burger | Muslim | 58 | transport | 27,450 | 2 | Unmarried |

Draw a graph to represent the Basic salary for each employee

1. A data set from a survey on computers of a computer lab

Create a dataset to represent the following data using **SPSS**

**Note:** Use numbers 1, 2, 3, 4, … to enter values to the fields **MENU, OS, SOFT, DATE,**

**MANU** – Manufacturer of the computer. The answers can be Hp, IBM, Toshiba, Dell, Acer

**OS** – the operating system installed in to the computer. The answers can be Windows XP, Linux, Fedora, Windows Vista, Windows 7.

**SOFT** – Number of application software installed into the computer. The answer is a numerical value.

**Date** – Date of purchase. The answers are 2000-07-25, 2005-10-04, 2010-04-09.

**DVD** – Availability of a DVD drive of computers. The answers are **yes** or **no**

**Enter the following data in to the prepared SPSS document**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Computer No** | **MANU** | **OS** | **SOFT** | **DATE** | **DVD** |
| 1 | IBM | Linux | 5 | 2000-07-25 | yes |
| 2 | Toshiba | Linux | 8 | 2000-07-25 | **yes** |
| 3 | Dell | Windows XP | 8 | 2010-04-09. | **No** |
| 4 | Acer | Fedora | 6 | 2005-10-04 | **no** |
| 5 | Hp | Linux | 10 | 2010-04-09. | **yes** |
| 6 | Dell | Dell | 12 | 2000-07-25 | **No** |
| 7 | Hp | Windows 7 | 10 | 2010-04-09. | **Yes** |
| 8 | Dell | Dell | 5 | 2010-04-09. | **No** |
| 9 | Toshiba | Windows Vista | 7 | 2000-07-25 | **yes** |
| 10 | Dell | Linux | 9 | 2010-04-09. | **No** |
| 11 | Toshiba | Fedora | 10 | 2005-10-04 | **No** |
| 12 | Dell | Windows 7 | 8 | 2000-07-25 | **yes** |
| 13 | IBM | Fedora | 6 | 2005-10-04 | **no** |
| 14 | IBM | Windows 7 | 12 | 2005-10-04 | **yes** |
| 15 | Acer | Linux | 7 | 2010-04-09. | **yes** |

Create a Line graph to represent the OS and the computer Number

1. A data set from a survey on students of a school

**GRADE** - the grade of the student. The answers range from 6 to 13

**TV** – does the student watch TV. The answers are either YES or NO

**COMP** – does the student use a computer. The answers are either YES or NO

**INT** - does the student use Internet facility. The answers are either YES or NO

**LIB** - does the student use the library. The answers are either YES or NO

**EXTRA** - does the student do sports? The answers are football, cricket, badminton, netball, chess, athletic, no

**SOC** - does the student a member of a society. The answers are English society, Sinhala society, drama society, music society, art society, no

Enter few records for the students as the results of the survey

1. A data set for a vehicle service Center is given below, create the data set using SPSS with the relevant data types and enter the relevant data into the sheet.

The field **Type** will Store the type of the vehicle with the following reference

Car - 1

Van – 2

Jeep – 3

Bus – 4

The field **Model** will store the manufacture of the vehicle based on the following references

Toyota – 1

Nissan - 2

Honda - 3

Suzuki -4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ServiceID** | **Owner** | **Vehicle Number** | **Type** | **Model** | **Bill Value** |
| M056 | Kamal Herath | KM-5656 | 1 | 2 | 14,500.00 |
| W002 | Jagath Kumara | CAK-3434 | 2 | 4 | 16,450.00 |
| M328 | Neela Jayalath | PE-8989 | 3 | 3 | 12,600.00 |
| T045 | Saman Batagalla | CAA-4545 | 1 | 3 | 10,500.00 |
| F489 | Kalum Kumarasiri | KL-6767 | 1 | 1 | 9,250.00 |
| W777 | Nelum Fernando | KA-1212 | 3 | 1 | 14,750.00 |

Construct a graph to represent the Bill Value of each vehicle