**Question 1**

**DATA** toads;

INFILE 'C:\Users\William Zhang\Desktop\ToadJump.dat';

INPUT ToadName $ Weight Jump1 Jump2 Jump3;

**PROC** **PRINT** DATA = toads;

TITLE 'SAS Data Set Toads';

**RUN**;

|  |
| --- |
| SAS Data Set Toads |

| **Obs** | **ToadName** | **Weight** | **Jump1** | **Jump2** | **Jump3** |
| --- | --- | --- | --- | --- | --- |
| **1** | Lucky | 2.3 | 1.9 | . | 3.0 |
| **2** | Spot | 4.6 | 2.5 | 3.1 | 0.5 |
| **3** | Tubs | 7.1 | . | . | 3.8 |
| **4** | Hop | 4.5 | 3.2 | 1.9 | 2.6 |
| **5** | Noisy | 3.8 | 1.3 | 1.8 | 1.5 |

**Question 2**

**Part A)**

**DATA** sales;

INFILE 'C:\Users\William Zhang\Desktop\ Onions.dat';

INPUT VisitingTeam $ 1-20 ConcessionSales 21-24 BleacherSales 25-28 OurHits 29-31 TheirHits 32-34 OurRuns 35-37 TheirRuns 38-40;

**PROC** **PRINT** DATA = toads;

TITLE 'SAS Data SetSales ';

**RUN**;

|  |
| --- |
| **SAS Data SetSales** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **VisitingTeam** | **ConcessionSales** | **BleacherSales** | **OurHits** | **TheirHits** | **OurRuns** | **TheirRuns** |
| **1** | Columbia Peaches | 35 | 67 | 1 | 10 | 2 | 1 |
| **2** | Plains Peanuts | 210 | . | 2 | 5 | 0 | 2 |
| **3** | Gilroy Garlics | 15 | 1035 | 12 | 11 | 7 | 6 |
| **4** | Sacramento Tomatoes | 124 | 85 | 15 | 4 | 9 | 1 |

Part B)

Notice one of the rows is removed and certain entries are deleted. The deletion was in the files

|  |
| --- |
| **Column removed** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **VisitingTeam** | **ConcessionSales** | **BleacherSales** | **OurHits** | **TheirHits** | **OurRuns** | **TheirRuns** |
| **1** | Columbia Peaches 3 | . | 7 | . | 0 | . | . |
| **2** | Gilroy Garlics | 15 | 1035 | 12 | 11 | 7 | 6 |
| **3** | Sacramento Tomatoes | 124 | 85 | 15 | 4 | 9 | 1 |

Question 3)

**DATA** contest;

INPUT Name $16. Age 3. +1 Type $1. +1 Date MMDDYY10.

(Score1 Score2 Score3 Score4 Score5) (4.1);

FORMAT Date MMDDYY10.;

DATALINES;

Alicia Grossman 13 c 10-28-2003 7.8 6.5 7.2 8.0 7.9

Matthew Lee 9 D 10-30-2003 6.5 5.9 6.8 6.0 8.1

Elizabeth Garcia 10 C 10-29-2003 8.9 7.9 8.5 9.0 8.8

Lori Newcombe 6 D 10-30-2003 6.7 5.6 4.9 5.2 6.1

Jose Martinez 7 d 10-31-2003 8.9 9.510.0 9.7 9.0

Brian Williams 11 C 10-29-2003 7.8 8.4 8.5 7.9 8.0

;

**PROC** **PRINT** DATA = contest;

TITLE '13th column removal';

**RUN**;

Notice how 13 was read but the entire column entries are not shown

|  |
| --- |
| **’13th column removal’** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **Name** | **Age** | **Type** | **Date** | **Score1** | **Score2** | **Score3** | **Score4** | **Score5** |
| **1** | Alicia Grossman | 13 |  | . | . | . | . | . | . |
| **2** | Matthew Lee | 9 | D | 10/30/2003 | 6.5 | 5.9 | 6.8 | 6.0 | 8.1 |
| **3** | Elizabeth Garcia | 10 | C | 10/29/2003 | 8.9 | 7.9 | 8.5 | 9.0 | 8.8 |
| **4** | Lori Newcombe | 6 | D | 10/30/2003 | 6.7 | 5.6 | 4.9 | 5.2 | 6.1 |
| **5** | Jose Martinez | 7 | d | 10/31/2003 | 8.9 | 9.5 | 10.0 | 9.7 | 9.0 |
| **6** | Brian Williams | 11 | C | 10/29/2003 | 7.8 | 8.4 | 8.5 | 7.9 | 8.0 |

**Question 4**

**Part A)**

**DATA** sales;

INPUT ParkName $ 1-22 State $ Year @40 Acreage COMMA9.;

DATALINES;

Yellowstone ID/MT/WY 1872 4,065,493

Everglades FL 1934 1,398,800

Yosemite CA 1864 760,917

Great Smoky Mountains NC/TN 1926 520,269

Wolf Trap Farm VA 1966 130

;

**PROC** **PRINT** DATA = sales;

TITLE 'Selected National Parks';

**RUN**;

|  |
| --- |
| **’Selected National Parks’** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Obs** | **ParkName** | **State** | **Year** | **Acreage** |
| **1** | Yellowstone | ID/MT/WY | 1872 | 65493 |
| **2** | Everglades | FL | 1934 | 1398800 |
| **3** | Yosemite | CA | 1864 | 760917 |
| **4** | Great Smoky Mountains | NC/TN | 1926 | 520269 |
| **5** | Wolf Trap Farm | VA | 1966 | 130 |

**Part B)**

**DATA** sales;

INPUT ParkName $ 1-22 State $ Year Acreage COMMA9.;

DATALINES;

Yellowstone ID/MT/WY 1872 4,065,493

Everglades FL 1934 1,398,800

Yosemite CA 1864 760,917

Great Smoky Mountains NC/TN 1926 520,269

Wolf Trap Farm VA 1966 130

;

**PROC** **PRINT** DATA = sales;

TITLE 'Selected National Parks';

**RUN**;

|  |
| --- |
| **’Selected National Parks’** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Obs** | **ParkName** | **State** | **Year** | **Acreage** |
| **1** | Yellowstone | ID/MT/WY | 1872 | 40654 |
| **2** | Everglades | FL | 1934 | . |
| **3** | Yosemite | CA | 1864 | . |
| **4** | Great Smoky Mountains | NC/TN | 1926 | 520 |
| **5** | Wolf Trap Farm | VA | 1966 | . |

**Question 5**

DATA reading;

INFILE 'C:\Users\William Zhang\Desktop\Books.txt' DLM= ’09’X;

INPUT Name $ Week1 Week2 Week3 Week4 Week5;

RUN;

PROC PRINT DATA = reading;

TITLE 'Reading Record';

RUN;

|  |
| --- |
| **Reading Record** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Obs** | **Name** | **Week1** | **Week2** | **Week3** | **Week4** | **Week5** |
| **1** | Grace | 3 | 1 | 5 | 2 | 6 |
| **2** | Martin | 1 | 2 | 4 | 1 | 3 |
| **3** | Scott | 9 | 10 | 4 | 8 | 6 |