Math 338 Name: Gabriele Salamanca

Kafai – HW 4

Data set EMPLOY contains:

ID (employee number),

GENDER, and

DOB (date of birth).

Data set PARTS contains:

PART\_NO and

PRICE.

Data set SALES contains:

ID (employee number),

TRANS (transaction number),

PART\_NO, and

QUANTITY (for each sales call completed).

Write a SAS program to read the data sets and

1. A listing, sorted by ID, showing ID, the transaction number, and the total sale for each transaction.
2. A summary showing the total sale for each employee.
3. A summary showing the total company sales for each GENDER.

EMPLOY

|  |  |  |
| --- | --- | --- |
| ID | GENDER | DOB |
| 01 | F | 10/21/46 |
| 02 | F | 09/02/44 |
| 03 | M | 04/23/55 |
| 04 | F | 11/11/38 |

PARTS

|  |  |
| --- | --- |
| PART\_NO | PRICE |
| 123 | 15 |
| 234 | 25 |
| 237 | 20 |
| 355 | 28 |
| 789 | 55 |

SALES

|  |  |  |  |
| --- | --- | --- | --- |
| ID | TRANS | PART\_NO | QUANTITY |
| 03 | 1 | 234 | 5 |
| 03 | 1 | 123 | 9 |
| 03 | 2 | 237 | 4 |
| 01 | 1 | 355 | 5 |
| 01 | 1 | 234 | 3 |
| 01 | 1 | 123 | 9 |
| 01 | 2 | 355 | 5 |
| 02 | 1 | 237 | 11 |

/\*\*\*HW 4\*\*\*Gabrielle Salamanca\*\*\*/

options nodate;

**data** employ;

infile '\\Client\D$\M338 SAS\Data Files\employ.txt';

informat DOB MMDDYY10.;

input ID Gender $ DOB MMDDYY8.;

**run**;

/\*\*\*\*\*\*\*\*\*

proc print;

var ID Gender DOB;

format ID z2. Gender $1. DOB MMDDYY8.;

title 'employ';

run;

/\*\*\*\*\*\*\*\*\*/

**data** parts;

infile '\\Client\D$\M338 SAS\Data Files\parts.txt';

input Part\_NO Price;

**run**;

/\*\*\*\*\*\*\*\*\*

proc print;

title 'parts';

run;

/\*\*\*\*\*\*\*\*\*/

**data** sales;

infile '\\Client\D$\M338 SAS\Data Files\sales.txt';

input ID Trans Part\_NO Quantity;

**run**;

/\*\*\*\*\*\*\*\*\*

proc print;

var ID Trans Part\_NO Quantity;

format ID z2. Trans Part\_NO Quantity;

title 'sales';

run;

/\*\*\*HW 4.A\*\*\*Gabrielle Salamanca\*\*\*/

**data** NewSales;

merge parts sales;

input ID Trans Part\_NO Price Quantity Total;

**run**;

**proc** **sort**;

by ID;

**run**;

/\*\*\*\*\*\*\*\*\*

proc print noobs;

var ID Trans Part\_NO Quantity;

format ID z2. Trans Part\_NO Quantity;

run;

/\*\*\*\*\*\*\*\*\*/

**proc** **means** classdata=sales sum maxdec=**0**;

title 'HW 4.A: Gabrielle Salamanca';

class ID;

var Quantity;

output out = IDS;

**run**;

/\*\*\*\*\*\*\*\*\*

proc print data = NewSales noobs;

var ID Trans Part\_NO;

format ID z2. Trans Part\_NO;

title 'HW 4.A: Gabrielle Salamanca';

run;

/\*\*\*HW 4.B\*\*\*Gabrielle Salamanca\*\*\*/

**data** WholeSales;

merge employ NewSales;

informat DOB MMDDYY8.;

input ID Gender $ DOB Trans Part\_NO Price Quantity;

**run**;

**proc** **sort** data = WholeSales;

by ID;

**run**;

**proc** **means** data = WholeSales classdata=sales sum maxdec=**0**;

title 'HW 4.B: Gabrielle Salamanca';

class ID;

var Quantity;

output out=IDS;

**run**;

/\*\*\*HW 4.C\*\*\*Gabrielle Salamanca\*\*\*/

**proc** **sort** data = WholeSales;

by Gender;

**run**;

**proc** **means** data = WholeSales classdata=employ sum maxdec=**0**;

title 'HW 4.C: Gabrielle Salamanca';

class Gender;

var Quantity;

output out = IDS;

**run**;

/\*\*\*\*\*\*\*\*\*/

**quit**;

