

```
1 proc sort data=cr.employee_current out=emp_sort;
2     by Department Salary;
3 run;
4
5 data dept_salary;
6     set emp_sort;
7     retain LowSalaryJob;
8     by Department;
9     if first.Department then do;
10         TotalDeptSalary=0;
11         LowSalaryJob=JobTitle;
12     end;
13     TotalDeptSalary+Salary;
14     if last.department then do;
15         HighSalaryJob=JobTitle;
16         output;
17     end;
18     keep Department TotalDeptSalary HighSalaryJob LowSalaryJob;
19     format TotalDeptSalary dollar12.;
20 run;
21
22 /* Programming exercise -7 */
23 data fish;
24     set sashelp.fish;
25     Length=round(mean(of L:), .01);
26 run;
27
28
29 proc means data=fish mean maxdec=2;
30     var Length;
31     class Species;
32 run;
33
34 /* Programming Exercise -8 */
35 data outfield;
36     set sashelp.baseball;
37     where substr(Position, 2, 1)="F";
38     Player=catx(" ", scan(Name, 2), scan(Name, 1));
39     BatAvg=round(nHits/nAtBat, .001);
40     keep Player BatAvg Position;
41 run;
42
43 proc sort data=outfield;
44     by descending BatAvg;
45 run;
46
47
48 /* Programming Exercise -9 */
49 data emp_new;
50     set cr.employee_new(rename=(HireDate=HireDateC));
51     EmpID=substr(EmpID,4);
52
```

```
53 HireDate=input(HireDateC, anydtdte10.);
54 Salary=input(AnnualSalary, dollar10.);
55 drop HireDateC;
56 run;
57
58
59
60 /* Programming Exercise-10 */
61 proc format;
62     value bmirange low-<18.5="Underweight"
63                 18.5-24.9="Normal"
64                 25-29.9="Overweight"
65                 30-high="Obese";
66 run;
67
68
69 proc freq data=sashelp.bmimn;
70     where age>=21;
71     tables bmi;
72     format bmi bmirange.;
73 run;
74
75 /* Programming Exercise-11 */
76 data continentfmt;
77     set cr.continent_codes;
78     retain fmtname "contfmt";
79     Start=Code;
80     Label=Continent;
81 run;
82
83 proc format cntlin=continentfmt;
84 run;
85
86 proc means data=cr.demographics sum maxdec=0;
87     var pop;
88     class cont;
89     format cont contfmt.;
90 run;
91
92 /* Programming Exercise-12 */
93 proc format;
94     value $statfmt "S"="Single"
95                 "M"="Married"
96                 "O"="Other";
97     value salrange low-<50000="Under $50K"
98                 50000-100000="50K-100K"
99                 100000<-high="Over 100K";
100 run;
101
102
103 proc freq data=cr.employee;
104     tables Status;
105     tables City*Salary / nopercnt nocol;
```

```
106     format Status $statfmt. Salary salrange.;
107 run;
108 /* value salrange low-<50000="Under $50K" */
109 /*           50000-100000="50K-100K" */
110 /*           100000<-high="Over 100K"; */
111
112
113
114
115
116
117
118
```