

```
/* a) */
```

```
libname dir '/home/u59612831/A3/';
```

```
data personal;  
    infile "/home/u59612831/A3/personal.dat" firstobs=2 flowover;  
    input @1 Last_Name $char19.  
          @20 First_Name $char19.  
          @40 Phone  
          @46 empid $ +1;
```

```
run;
```

```
data dir.empdata;  
    set dir.empdata_div_merged;  
RUN;
```

```
proc sort data=dir.empdata; by empid; run;  
proc sort data=personal; by empid; run;
```

```
DATA Air_Emps_Full;  
    MERGE personal(keep=Last_Name First_Name empid) dir.empdata(keep=empid DivName JobType hiredate salary);  
    BY empid;  
    rename salary=CurrentSalary;  
    label Last_Name="Last Name"  
          First_Name="First Name"  
          empid="Employee ID"  
          DivName="Divison"  
          JobType="Job Type Code"  
          hiredate="Date of Hire"  
          CurrentSalary="Current Annual Salary"  
    ;  
    format hiredate DDMYY10. salary dollar15.;
```

```
RUN;
```

```
title "Air_Emps_Full (10 obs)";
```

```
proc print data = Air_Emps_Full(obs=10);
```

```
/*Adding descriptive labels allows us to add a description alongside the variable name. This is useful if there  
extra information or more specific details we'd like to associate with the variable.*/
```

```
/* b) and c) */
```

```
data Air_Emps_Underpaid;  
    set Air_Emps_Full;  
    if hiredate < '01Jan1990'd and CurrentSalary < 45000;  
run;
```

```
title "Air_Emps_Underpaid";
```

```
proc print data = Air_Emps_Underpaid(obs=10);
```