

Level 2 Practice: Creating New Columns with Character and Date Functions

The **pg1.eu_occ** table contains individual columns for nights spent at hotels, short-stay accommodations, or camps for each year and month. The **YearMon** column is character.

1. Write a DATA step to create a temporary table named **eu_occ_total** that is based on the **pg1.eu_occ** table.
 - Create the following new columns:
 - **Year**: the four-digit year extracted from **YearMon**
 - **Month**: the two-digit month extracted from **YearMon**
 - **ReportDate**: the first day of the reporting month
Note: Use the MDY function and the new **Year** and **Month** columns
 - **Total**: the total nights spent at any establishment
 - Format **Hotel**, **ShortStay**, **Camp**, and **Total** with commas. Format **ReportDate** to display the values in the form JAN2018.
 - Keep **Country**, **Hotel**, **ShortStay**, **Camp**, **ReportDate**, and **Total** in the new table.
 - Submit the program and view the output data.

```
data eu_occ_total;
  set pg1.eu_occ;
  Year=substr(YearMon,1,4);
  Month=substr(YearMon,6,2);
  ReportDate=MDY(Month,1,Year);
  Total=sum(Hotel,ShortStay,Camp);
  format Hotel ShortStay Camp Total comma17.
         ReportDate monyy7.;
  keep Country Hotel ShortStay Camp ReportDate Total;
run;
```

2. What is the value of **ReportDate** in row one?

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