

## Patient Attributes

The Patient Attributes module contains additional demographic data that doesn't fit into the Patients File.

Note: A patient can have multiple values for the same attribute, most commonly for Race and Sexual Orientation.

### Target Date

For a given target date, find all the cases that started on that date. Then find all patients for those cases. For those patients, return the data for the following demographics data: Legal Sex, Sex Assigned at Birth, Sexual Orientation, Ethnic Group, Race, Preferred Language, Preferred Language for Care, and Gender Identity.

### File Columns

Flat File Column	Nullable?	Data Type	Purpose
Patient_ID	No		The patient identifier, must be the the same identifier given in the "Patients" file.
Attribute_ID	No		The identifier of the category for the patient attribute variable.
Attribute_Name	Yes		The name of the category for the patient attribute variable. (e.g. Ethnic Group, Legal Sex, Preferred Language, and Race).
Attribute_Value_ID	No		The identifier of the patient attribute value variable.
Attribute_Value_Name	No		The name of the patient attribute value. (e.g. Non-Hispanic, Female, English, White or Caucasian).
Attribute_Value_Rank	No		The rank of the primary patient attribute value.
Observation_Time	No	DateTime	The time the observation was made.
Entered_Time	No	DateTime	The time the observation was documented.

### Additional Column Details

#### Attribute\_ID

If there is no Attribute ID identifier, use the same value as the Attribute\_Name.

#### Attribute\_Value\_ID

If there is no Attribute Value ID identifier, use the same as the Attribute\_Value\_Name.

#### Observation Time

The date stored in this column must match the target date.

#### Entered Time

The date stored in this column must match the target date.

## Example Data

### Single Date Format

```
Z1234567, 62342, Ethnic Group, 1, Non-Hispanic, NULL, NULL, NULL
Z1234567, 32451, Legal Sex, 1, Female, NULL, NULL, NULL
Z1234567, 53421, Preferred Language, 22, English, NULL, NULL, NULL
Z1234567, 43213, Race, 1, White or Caucasian, 1, NULL, NULL
Z1234567, 42312, Ethnic Group, 1, Non-Hispanic, NULL, NULL, NULL
```

### Multi Date Format

```
07/26/2024, Z1234567, 62342, Ethnic Group, 1, Non-Hispanic, NULL, NULL, NULL
07/26/2024, Z1234567, 32451, Legal Sex, 1, Female, NULL, NULL, NULL
07/26/2024, Z1234567, 53421, Preferred Language, 22, English, NULL, NULL, NULL
07/26/2024, Z1234567, 43213, Race, 1, White or Caucasian, 1, NULL, NULL
07/26/2024, Z1234567, 54678, Ethnic Group, 1, Non-Hispanic, NULL, NULL, NULL
```

## Development Checklist

- Global Requirements
  - All columns are represented in file
  - Columns are in correct order
  - Required columns are never blank
  - Column data types are obeyed
  - File does not contain a header row
  - Delimiter characters have been escaped
  - No additional delimiters are used (e.g. quotes around each field)
  - Target date follows module definition
  - Extract always fully pulls each date, target date is never incomplete
  - If using the multi date format, target date column has been added to the beginning of each row, formatted as MM/dd/yyyy (include leading zeroes)
  - No whitespace in NULL fields
  - File name matches the correct template
    - Single date: MODULE\_SPECVERSION\_SOURCESYSTEM\_TARGETDATE\_PULLDATE.csv
    - Multi date: MODULE\_SPECVERSION\_SOURCESYSTEM\_FILELABEL\_PULLDATE.csv