

```
In [1]: import pandas as pd
import matplotlib.pyplot as plt
db = pd.read_csv("diabetic_data.csv")
print(db.head())
```

|   | encounter_id | patient_nbr | race            | gender | age     | weight | \ |
|---|--------------|-------------|-----------------|--------|---------|--------|---|
| 0 | 2278392      | 8222157     | Caucasian       | Female | [0-10)  | ?      |   |
| 1 | 149190       | 55629189    | Caucasian       | Female | [10-20) | ?      |   |
| 2 | 64410        | 86047875    | AfricanAmerican | Female | [20-30) | ?      |   |
| 3 | 500364       | 82442376    | Caucasian       | Male   | [30-40) | ?      |   |
| 4 | 16680        | 42519267    | Caucasian       | Male   | [40-50) | ?      |   |

  

|   | admission_type_id | discharge_disposition_id | admission_source_id | \ |
|---|-------------------|--------------------------|---------------------|---|
| 0 | 6                 | 25                       | 1                   |   |
| 1 | 1                 | 1                        | 7                   |   |
| 2 | 1                 | 1                        | 7                   |   |
| 3 | 1                 | 1                        | 7                   |   |
| 4 | 1                 | 1                        | 7                   |   |

  

|   | time_in_hospital | ... | citoglipton | insulin | glyburide-metformin | \ |
|---|------------------|-----|-------------|---------|---------------------|---|
| 0 | 1                | ... | No          | No      | No                  |   |
| 1 | 3                | ... | No          | Up      | No                  |   |
| 2 | 2                | ... | No          | No      | No                  |   |
| 3 | 2                | ... | No          | Up      | No                  |   |
| 4 | 1                | ... | No          | Steady  | No                  |   |

  

|   | glipizide-metformin | glimepiride-pioglitazone | metformin-rosiglitazone | \ |
|---|---------------------|--------------------------|-------------------------|---|
| 0 | No                  | No                       | No                      |   |
| 1 | No                  | No                       | No                      |   |
| 2 | No                  | No                       | No                      |   |
| 3 | No                  | No                       | No                      |   |
| 4 | No                  | No                       | No                      |   |

  

|   | metformin-pioglitazone | change | diabetesMed | readmitted |
|---|------------------------|--------|-------------|------------|
| 0 | No                     | No     | No          | NO         |
| 1 | No                     | Ch     | Yes         | >30        |
| 2 | No                     | No     | Yes         | NO         |
| 3 | No                     | Ch     | Yes         | NO         |
| 4 | No                     | Ch     | Yes         | NO         |

[5 rows x 50 columns]

```
In [ ]:
```