**Steps to Consider for Indian Based EINs**

The following steps explain work to extract specific billing codes from the files saved on the Humana website. First we explain how to create a sample list of EINs from the state of Indiana.

If we want to limit to certain employers later, we can do this first step:

1. Extract EINs from the Index JSON files, then search over the list of EINs for Indiana.
2. Obtain the .csv files for those employers from the locations listed in the Index JSON

**Step: 1 - Create a sample list of EINs from the state of Indiana**

1.a) Since the location of the employers is not mentioned as part of the Humana files, we must gather the information of the location for most of the employers possible as we must study for the state of Indiana. Referred three different lists which are Dol 5500, Sec Ids, and IRS details for non-profit employers to collect EIN details with the location.

**Dol 5500** – It is an annual report, filed with the U.S. Department of Labor (DOL) that contains information about a 401(k) plan's financial condition, investments, and operation.

Table

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Description automatically generated with medium confidence **SEC IDs –** A unique identifier assigned by the Securities and Exchange Commission (SEC) to each series of investment companies. The format is an "S" followed by nine digits.

A picture containing graphical user interface

Description automatically generated**IRS -** In order to obtain the EINs for non-profit organizations, it will be helpful to check the IRS details for location information and compare the negotiated rates.

Table

Description automatically generated1.b) After gathering all the information on different EINs including profit and non-profit organizations. Create a table/ data frame with “tag” as name of the source from which the EIN is extracted Dol 5500/SEC/IRS, “plan\_id”/EINs, “name” of the organization, “city” and the “state”. While doing so we made sure that those EINs are part of the Humana plan as in step 1, we got the EINs for Humana.

Text

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**Step: 2 - Extract EINs from the Index JSON files, then search over the list of EINs for Indiana**

2.a) All the filenames that are stored in the Humana server are part of the Filenames JSON and we download only the index JSON files which consist of the plan name, plan ids/EINs, and the hyperlinks for the CSV GZ files.

A sample of the JSON file format is shown below:

A screenshot of a computer

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2.b) Created a table or data frame with columns as “plan\_name”, “plan\_id\_type”, “plan\_id” / EIN, “plan\_market\_type”, “fname”/filename of the index JSON file. This helps to get all the employees covered by the insurer Humana.

Graphical user interface

Description automatically generated with low confidence

2.c) To match the EINs from the state of Indiana and all the EINs from the Humana server, we used the below mentioned code with output: Graphical user interface, text, application

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Graphical user interface, text

Description automatically generated with medium confidence2.d) Obtain all the URLs from the in-network with the help of unique index JSON from the above step.

The code for above mentioned steps is saved in /N/project/TIC/Humana/code\_final/Obtain\_Indiana\_EINs.ipynb.