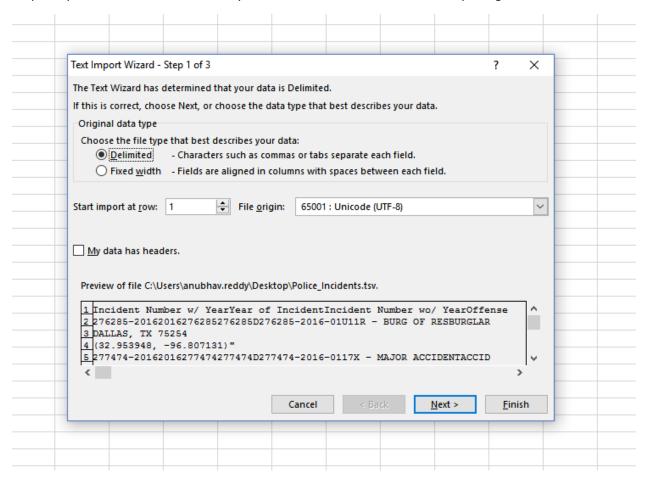
## Steps to clean the police incidents file and load it into hive

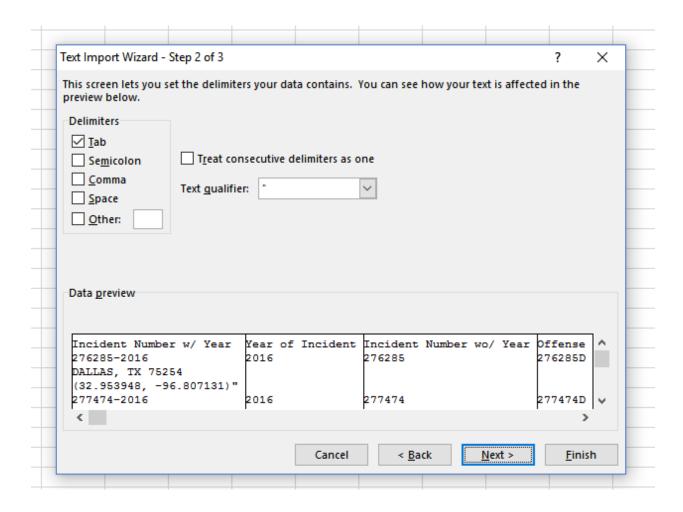
Step 1: Download police Incidents data in ".tsv" format from the following link: <a href="https://www.dallasopendata.com/Public-Safety/Police-Incidents/tbnj-w5hb">https://www.dallasopendata.com/Public-Safety/Police-Incidents/tbnj-w5hb</a>

• Go to Downloads and click TSV for Excel

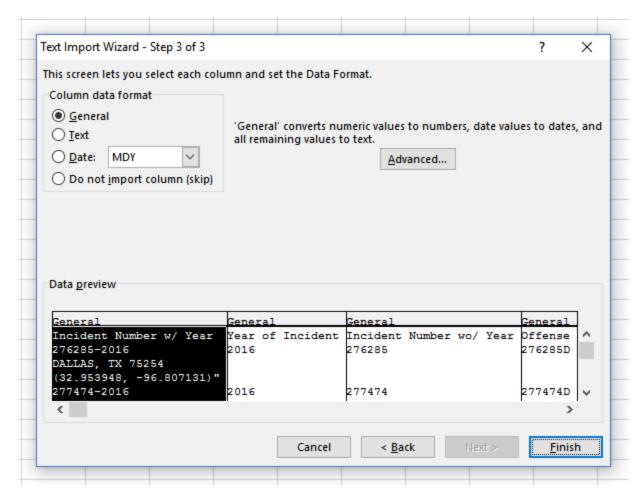
Step 2: Open the TSV file in Excel and you should see the below screen on opening the file



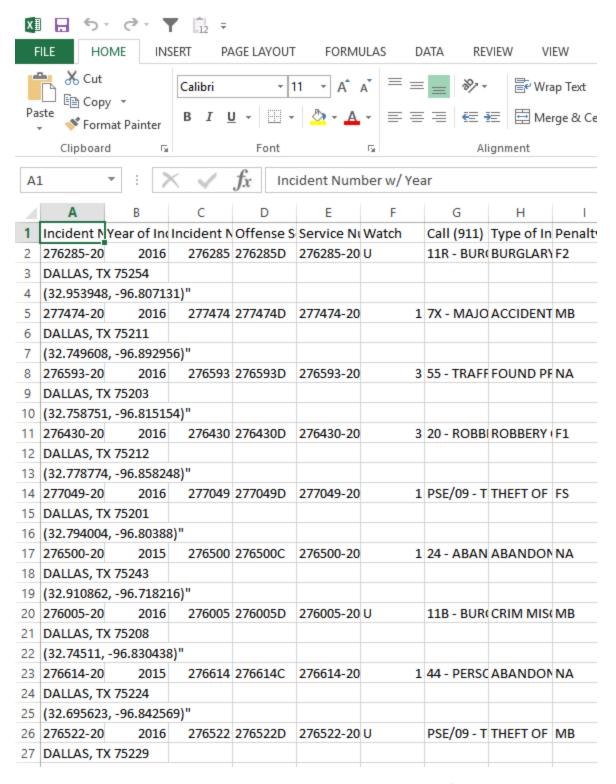
Click Next



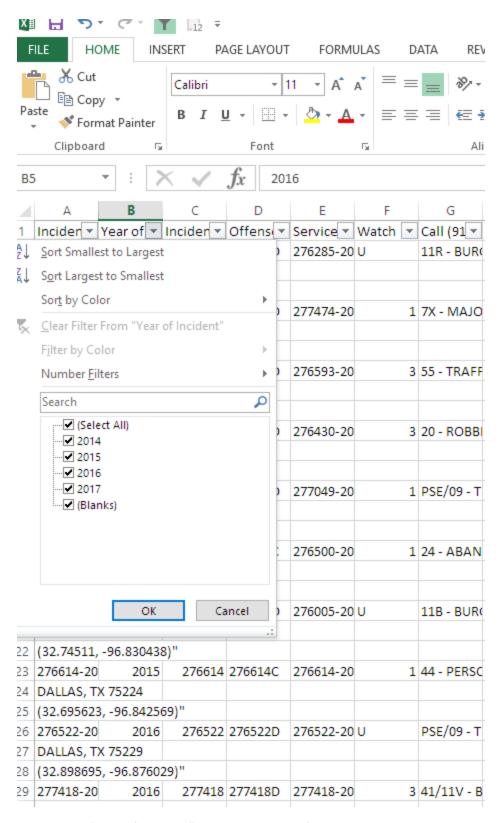
Make sure **Tab** is selected in Delimiters then click **Next.** 



Click Finish. Once the data is loaded first couple of columns will look like below

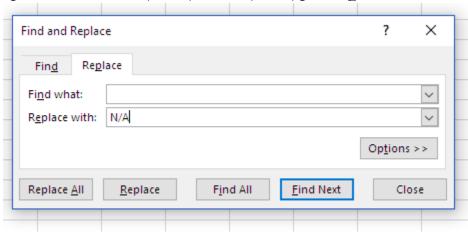


The geo location data is also present and we need to remove it so, apply filters to all columns. Make sure you select the entire data (ctrl + A) before applying filters.



Then select "Year of Incident" and **sort** the data from smallest to largest. Once sorting in finished filter on "blanks" and delete all blank rows. AT this point you should be left with 197191 rows of data. Now

again select entire data (ctrl +A) and find (ctrl + f) go to Replace tab. Fill the blanks as shown.



Click Replace All

Step 3. Upload the data to virtual machine / sandbox and select the columns using "awk" statement

Replace the number with column numbers you want to select for analysis

awk -F "\t" \{print \\$1 "\t" \\$2 "\t" \\$3 "\t" \\$8 "\t" \\$9"\t" \\$10"\t" \\$17 "\t" \\$20"\t" \\$21"\t" \\$22"\t" \\$23"\t" \\$24"\t" \\$25"\t" \\$59"\t" \\$59"\t" \\$60"\t" \\$64"\t" \\$81"\t" \\$94"\t" \\$96"\t" \\$97"\t" \\$98"\t" \\$99"\t" \\$101\}' Police\_Incidents.tsv > Police.tsv

Step 4. Load the new file with selected columns into hive

SQL Query to load data into hive

CREATE TABLE **TABLE NAME** (Incident\_Number\_year VARCHAR(50), **X INT, Y VARCHAR,......**) ROW FORMAT DELIMITED FIELDS TERMINATED BY '\t' lines terminated BY '\n' tblproperties("skip.header.line.count"="1");

LOAD DATA LOCAL INPATH 'PATH TO FILE' OVERWRITE INTO TABLE TABLE NAME;