Loading Data

Objective(s)
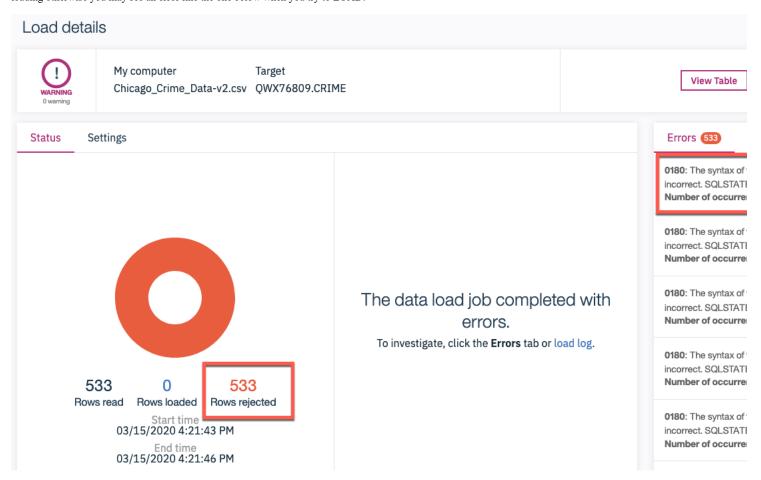
At the end of this lab you will be able to:

- Read data from a CSV files and load it into database

Exercise

When loading data ifrom a CSV file you need to ensure the data in the dataset maps to the correct datatype and format in the database. One area that can be particularly problematic is DATEs, TIMEs, and TIMESTAMPs because their formats can vary significantly.
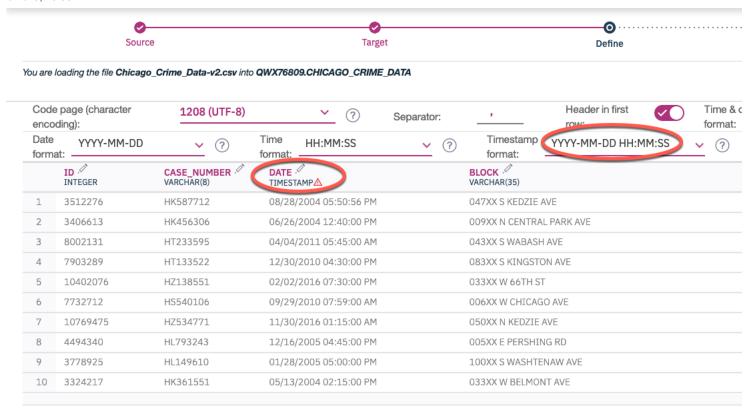
In case the database does not automatically recognize the datatype or format correctly, or the default setting does not match, you will need to manually correct it before loading otherwise you may see an error like the one below when you try to LOAD:

In order to prevent such errors when loading data, in the Db2 console you can preview the datatype and format of the automatically identified values with the values in the datasets in the LOAD screen such as the one below. If there is an issue, it is usually identified with an Warning icon (red triangle with an exclamation mark) next to the datatype of the column (e.g. DATE column in the example below). To correct this, you may first need to click on the "Clock" icon next to the "Time and Date format" to see the formats, if they are not already visible.

You are loading the file **Chicago_Crime_Data-v2.csv** into QWX76809.CHICAGO_CRIME_DATA

	ID INTEGER	CASE_NUMBER VARCHAR(8)	DATE TIMESTAMP ⚠	BLOCK VARCHAR(35)
1	3512276	HK587712	08/28/2004 05:50:56 PM	047XX S KEDZIE AVE
2	3406613	HK456306	06/26/2004 12:40:00 PM	009XX N CENTRAL PARK AVE
3	8002131	HT233595	04/04/2011 05:45:00 AM	043XX S WABASH AVE
4	7903289	HT133522	12/30/2010 04:30:00 PM	083XX S KINGSTON AVE
5	10402076	HZ138551	02/02/2016 07:30:00 PM	033XX W 66TH ST
6	7732712	HS540106	09/29/2010 07:59:00 AM	006XX W CHICAGO AVE
7	10769475	HZ534771	11/30/2016 01:15:00 AM	050XX N KEDZIE AVE
8	4494340	HL793243	12/16/2005 04:45:00 PM	005XX E PERSHING RD
9	3778925	HL149610	01/28/2005 05:00:00 PM	100XX S WASHTENAW AVE
10	3324217	HK361551	05/13/2004 02:15:00 PM	033XX W BELMONT AVE

First check if there is a pre-defined format in the drop down list that matches the format the date/time/timestamp is in the source dataset. If not, type the correct format. Upon doing so, the Mismatch Warning (and exclamation sign) should disappear. In this example below we changed/overwrote the default Timestamp format of **YYYY-MM-DD HHSS** to **MM/DD/YYYY HHSS TT** to match the value of **08/28/2004 05:50:56 PM** in the dataset.

	ID INTEGER	CASE_NUMBER VARCHAR(8)	DATE TIMESTAMP	BLOCK VARCHAR(35)
1	3512276	HK587712	08/28/2004 05:50:56 PM	047XX S KEDZIE AVE

Good luck!

Author(s)

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Changelog

Date	Version	Changed by	Change Description
2023-05-10	0.3	Eric Hao & Vladislav Boyko	Updated Page Frames
2020-08-27	0.2	Simran	Migrated Lab to Markdown and added to course repo in GitLab