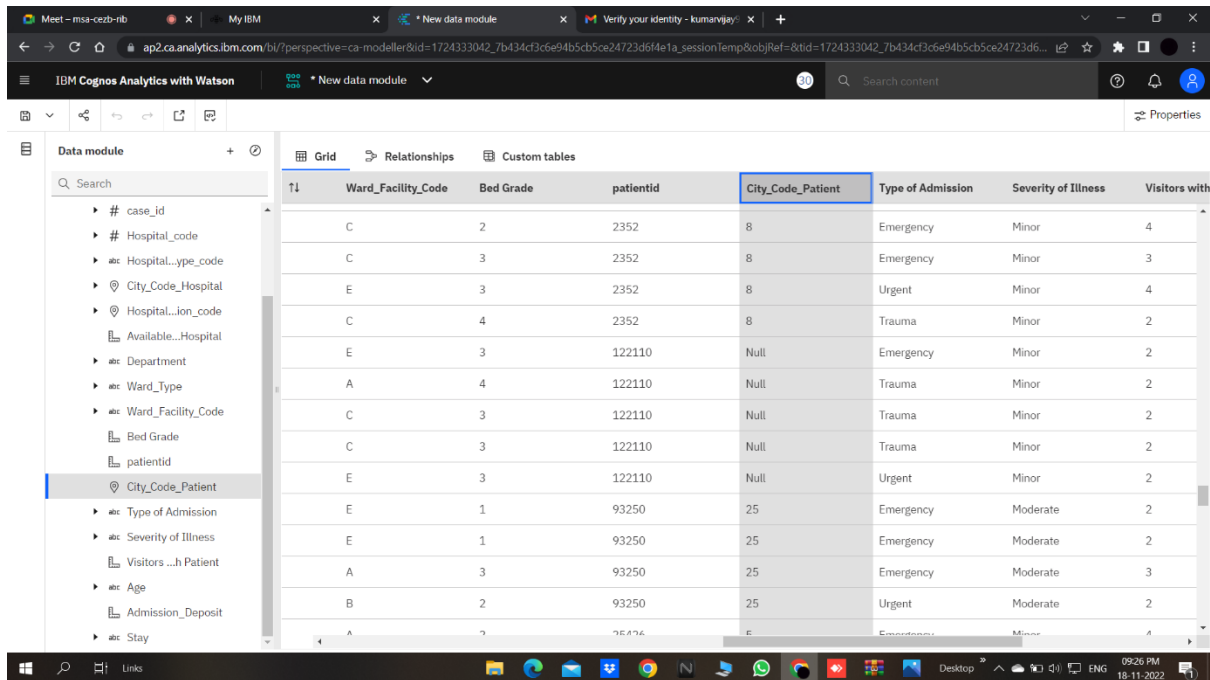


DATA PRE-PROCESSING

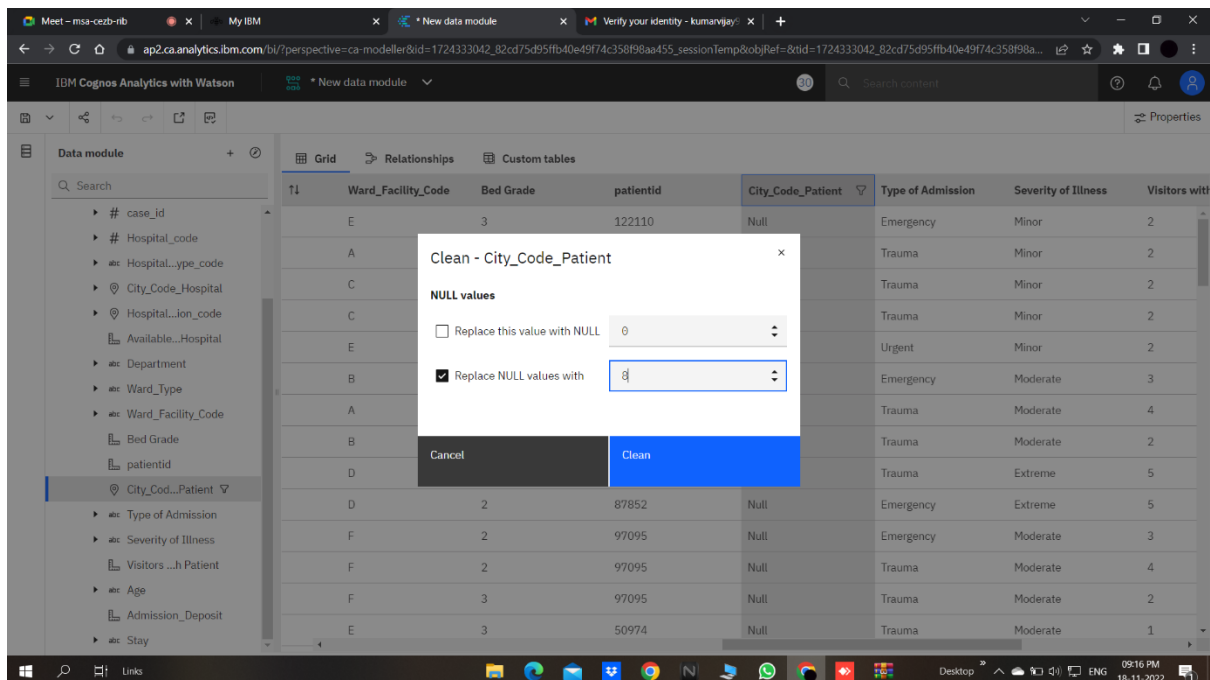
BEFORE PREPROCESSING:



The screenshot shows the IBM Cognos Analytics interface with a data table. The 'City_Code_Patient' column has NULL values for patient IDs 122110, 93250, and 93250. The table is displayed in a grid view with columns: Ward_Facility_Code, Bed Grade, patientid, City_Code_Patient, Type of Admission, Severity of Illness, and Visitors with.

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with
C	2	2352	8	Emergency	Minor	4
C	3	2352	8	Emergency	Minor	3
E	3	2352	8	Urgent	Minor	4
C	4	2352	8	Trauma	Minor	2
E	3	122110	Null	Emergency	Minor	2
A	4	122110	Null	Trauma	Minor	2
C	3	122110	Null	Trauma	Minor	2
C	3	122110	Null	Trauma	Minor	2
E	3	122110	Null	Urgent	Minor	2
E	1	93250	25	Emergency	Moderate	2
E	1	93250	25	Emergency	Moderate	2
A	3	93250	25	Emergency	Moderate	3
B	2	93250	25	Urgent	Moderate	2

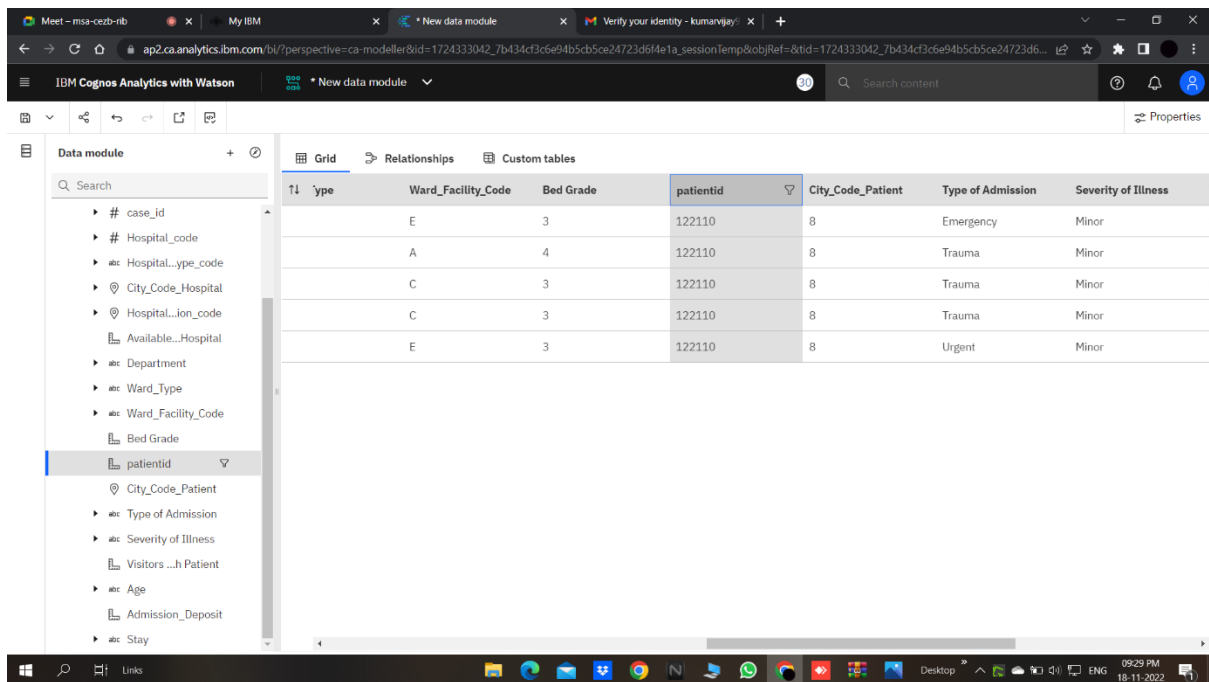
AFTER PREPROCESSING:



The screenshot shows the IBM Cognos Analytics interface with a data table. A dialog box titled 'Clean - City_Code_Patient' is open, showing the 'NULL values' section. The dialog box has two options: 'Replace this value with NULL' (unchecked) and 'Replace NULL values with' (checked). The 'Replace NULL values with' option is set to '8'. The table is displayed in a grid view with columns: Ward_Facility_Code, Bed Grade, patientid, City_Code_Patient, Type of Admission, Severity of Illness, and Visitors with.

Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness	Visitors with
E	3	122110	Null	Emergency	Minor	2
A				Trauma	Minor	2
C				Trauma	Minor	2
C				Trauma	Minor	2
E				Urgent	Minor	2
B				Emergency	Moderate	3
A				Trauma	Moderate	4
B				Trauma	Moderate	2
D				Trauma	Extreme	5
D	2	87852	Null	Emergency	Extreme	5
F	2	97095	Null	Emergency	Moderate	3
F	2	97095	Null	Trauma	Moderate	4
F	3	97095	Null	Trauma	Moderate	2
E	3	50974	Null	Trauma	Moderate	1

CLEANED DATASET:



The screenshot displays the IBM Cognos Analytics web application. The browser address bar shows the URL: `ap2.ca.analytics.ibm.com/bi/perspective=ca-modeller&id=1724333042_7b434cf3c6e94b5cb5ce24723d64e1a_sessionTemp&objRef=&tid=1724333042_7b434cf3c6e94b5cb5ce24723d6...`. The application header includes the text "IBM Cognos Analytics with Watson" and a "New data module" button. On the left, a "Data module" sidebar lists various fields: `# case_id`, `# Hospital_code`, `Hospital...ype_code`, `City_Code_Hospital`, `Hospital...ion_code`, `Available...Hospital`, `Department`, `Ward_Type`, `Ward_Facility_Code`, `Bed Grade` (selected), `City_Code_Patient`, `Type of Admission`, `Severity of Illness`, `Visitors ...h Patient`, `Age`, `Admission_Deposit`, and `Stay`. The main area shows a table with the following data:

#	Ward_Facility_Code	Bed Grade	patientid	City_Code_Patient	Type of Admission	Severity of Illness
E		3	122110	8	Emergency	Minor
A		4	122110	8	Trauma	Minor
C		3	122110	8	Trauma	Minor
C		3	122110	8	Trauma	Minor
E		3	122110	8	Urgent	Minor

The Windows taskbar at the bottom shows the time as 09:29 PM on 10-11-2022.