Three questions that can be answered from the dataset. Although data needs to be cleaned and also needs to be aggregated.

Q no 1) Create a visualization that shows the size of the Lego sets overtime.

Fields required for this: Year, set\_num, number parts, Name

Table: sets

Visualization options: Size of the sets: dynamic query along with the minimum and maximum of the sets with the bar charts but interactive like mentioned below:

Sample resources: <http://charts.animateddata.co.uk/whatmakesushappy/>

<https://bl.ocks.org/mbostock/4062085>

<https://archive.nytimes.com/www.nytimes.com/interactive/2012/05/17/business/dealbook/how-the-facebook-offering-compares.html>

<https://bl.ocks.org/mbostock/1256572>

<http://bl.ocks.org/rkirsling/33a9e350516da54a5d4f>

<http://vizuly.io/product/line-area-chart/?demo=d3js>

<http://bl.ocks.org/NPashaP/96447623ef4d342ee09b>

<http://www.cagrimmett.com/projects/>

Q no 2) Create a visualization that shows how colors of Lego changed overtime or not.

Fields required: Color ID, color name, inventory\_id , set\_num, year

Tables: Colors, Inventory parts, Inventory set, set

Visualization options🡪 Using heat map / sun burst to show the trend overtime

Resources: <http://bl.ocks.org/oyyd/859fafc8122977a3afd6>

<http://bl.ocks.org/wizicer/f662a0b04425fc0f7489>

Q no 3) Create a visualization that associate color with the themes of the Lego.

Color ID, Color Name, Theme Id, Theme name

Tables: Themes, Colors

Visualization options 🡪 Color associated with the themes: Chord Diagram

Resources: <https://www.visualcinnamon.com/2014/12/using-data-storytelling-with-chord.html>

<https://csaladenes.wordpress.com/2015/06/21/a-visual-exploratory-of-refugee-flows-over-the-world-using-dynamic-chord-diagrams/>

<https://bl.ocks.org/mbostock/4062006>

<http://bl.ocks.org/npashap/2d76492981106691cdcf843d7e3f765a>

<https://www.nu.nl/files/datajournalistiek/ek/ek2012.htm#.UKJ5yuOe8ww>

<https://bost.ocks.org/mike/uberdata/>