

TEAM ID	PNT2022TMID13523
PROJECT NAME	Analytics for Hospital's Health Care Data

<u>Team Members</u>
Ruthra S.J [Team Lead] - 727819TUCS048
Shalini M
Thiruveni B
Bharathi S

IBM COGNOS EMBEDDED WITH WEB APPLICATION

HOME PAGE :

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Data Analytics</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-inverse">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
</div>
<ul class="nav navbar-nav">
<li class="active"><a href="#">Home</a></li>
<li><a href="dashboard.html">Dashboard</a></li>
<li><a href="report.html">Report</a></li>
<li><a href="story.html">Story</a></li>
</ul>
</div>
</nav>

<div class="jumbotron">
<center> <h4><i><b>Team ID : PNT2022TMID13523</b></i></h4></center>

</div>
```

```

<table class="table table-bordered">

  <tbody>
    <tr>
      <td>Team Leader</td>
      <td>Ruthra S.J </td>

    </tr>
    <tr>
      <td>Team member</td>
      <td>Shalini M </td>

    </tr>
    <tr>
      <td>Team member</td>
      <td>Thiruveni B </td>

    </tr>
    <tr>
      <td>Team member</td>
      <td>Bharathi S </td>

    </tr>

  </tbody>
</table>
</body>
</html>

```

OUTPUT :

Team Leader	Ruthra S.J
Team member	Shalini M
Team member	Thiruveni B
Team member	Bharathi S

Activate Windows
Go to Settings to activate Windows.



About Page :

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Data Analytics</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
    href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
    <script
      src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
    <script
      src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
  </head>
  <body>

  <nav class="navbar navbar-inverse">
    <div class="container-fluid">
      <div class="navbar-header">
        <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
      </div>
      <ul class="nav navbar-nav">
        <li class="active"><a href="index.html">Home</a></li>
        <li><a href="dashboard.html">Dashboard</a></li>
        <li><a href="report.html">Report</a></li>
        <li><a href="story.html">Story</a></li>
      </ul>
    </div>
  </nav>

  <div class="container">
    <b>Analytics For Hospitals' Health-Care Data</b>
    <br>
    Recent Covid-19 Pandemic has raised alarms over one of the most overlooked areas to focus: HealthcareManagement.
    While healthcare management has various use cases for using data science, patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital. This parameter helps hospitals to identify patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection. Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning.
  </div>
```

Suppose you have been hired as Data Scientist of Health Man a not for profit organization dedicated to manage the functioning of Hospitals in a professional and optimal manner.

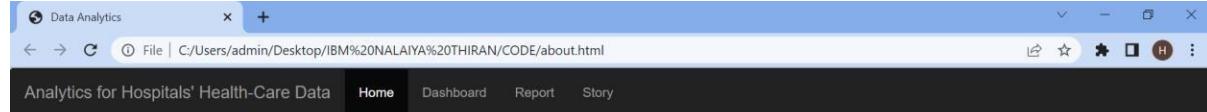
Goal:

The goal is to accurately predict the Length of Stay for each patient on case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

Technical Architecture:

</div>
</body>
</html>

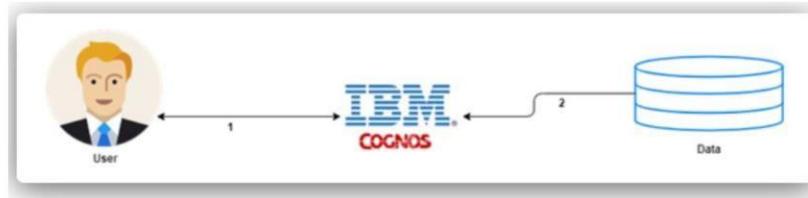
OUTPUT :



Analytics For Hospitals' Health-Care Data
Recent Covid-19 Pandemic has raised alarms over one of the most overlooked areas to focus: HealthcareManagement. While healthcare management has various use cases for using data science, patient length of stay is one critical parameter to observe and predict if one wants to improve the efficiency of the healthcare management in a hospital. This parameter helps hospitals to identify patients of high LOS-risk (patients who will stay longer) at the time of admission. Once identified, patients with high LOS risk can have their treatment plan optimized to minimize LOS and lower the chance of staff/visitor infection. Also, prior knowledge of LOS can aid in logistics such as room and bed allocation planning. Suppose you have been hired as Data Scientist of Health Man a not for profit organization dedicated to manage the functioning of Hospitals in a professional and optimal manner.

Goal: The goal is to accurately predict the Length of Stay for each patient on case by case basis so that the Hospitals can use this information for optimal resource allocation and better functioning. The length of stay is divided into 11 different classes ranging from 0-10 days to more than 100 days.

Technical Architecture:



DASHBOARD PAGE :

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Data Analytics</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

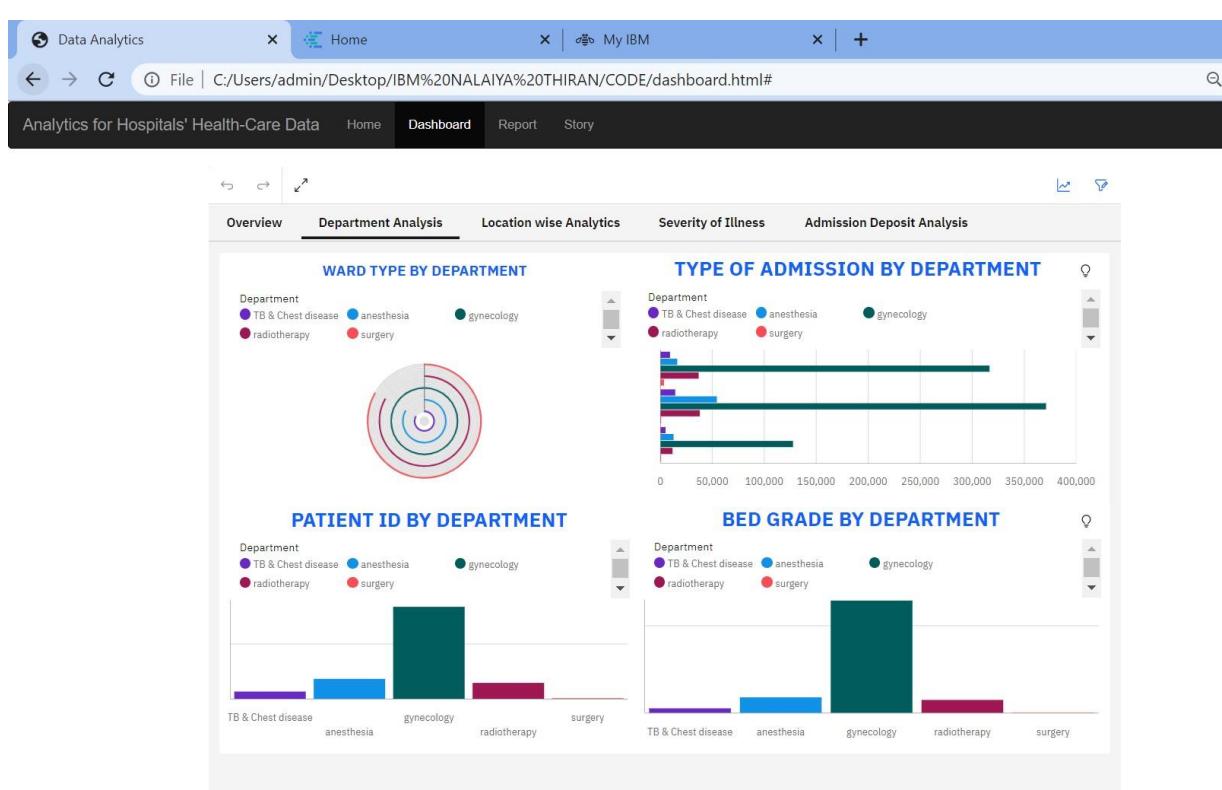
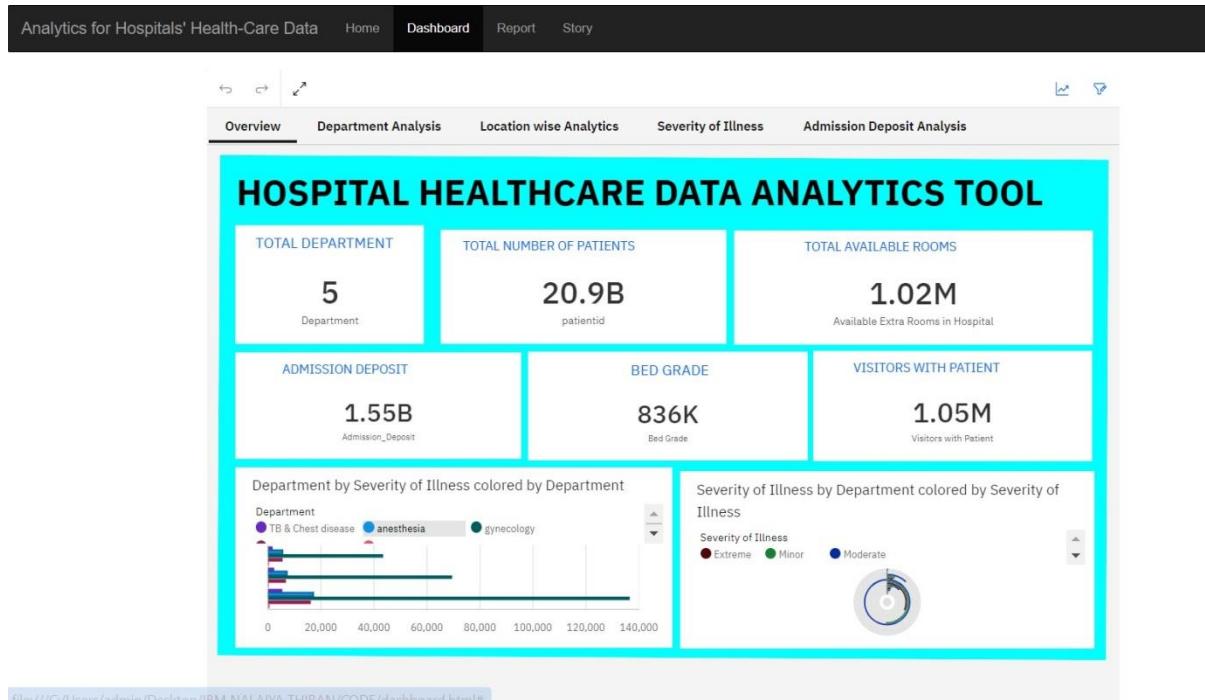
<nav class="navbar navbar-inverse ">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
    </div>
    <ul class="nav navbar-nav">
      <li><a href="index.html">Home</a></li>
      <li class="active"><a href="#">Dashboard</a></li>
      <li><a href="report.html">Report</a></li>
      <li><a href="story.html">Story</a></li>
    </ul>
  </div>
</nav>

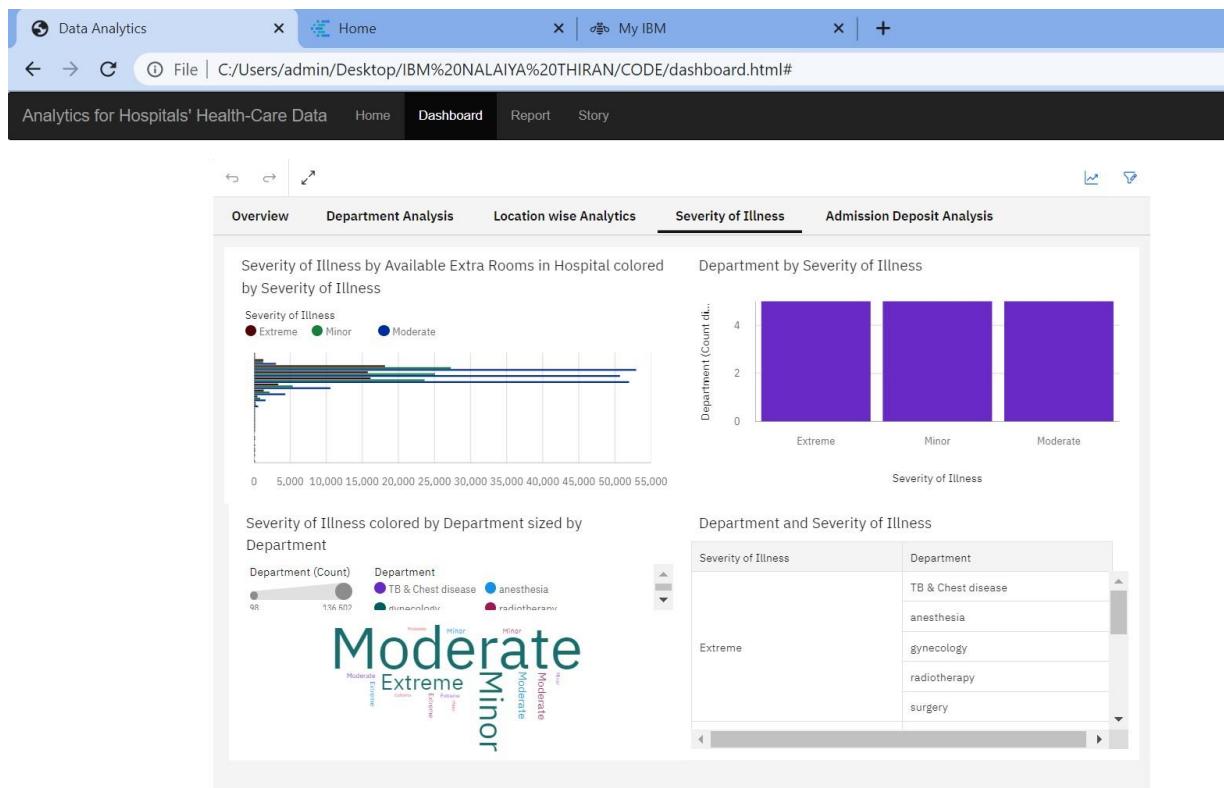
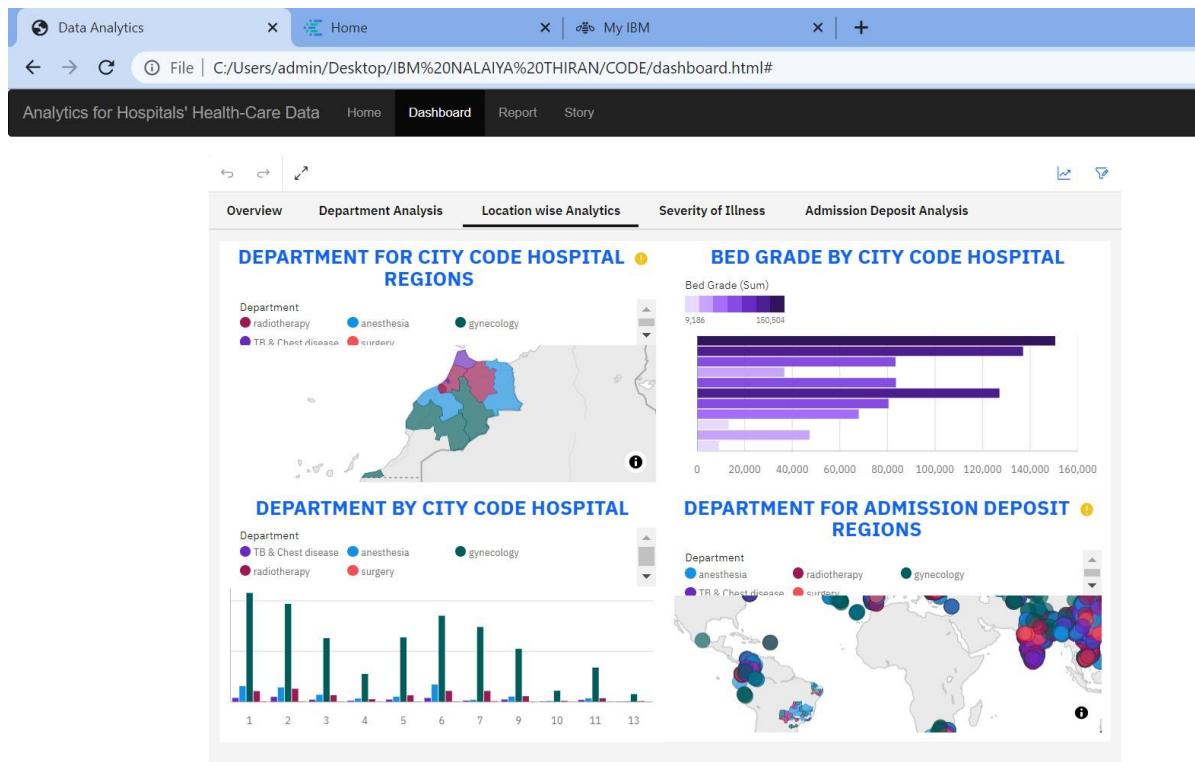
<div class="container">
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FDashboard%2FHealth%2BCare%2BData%2BAnalytics&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=view&mode=dashboard&subView=model0000018476584e12_00000000" width="1100" height="600" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
</div>

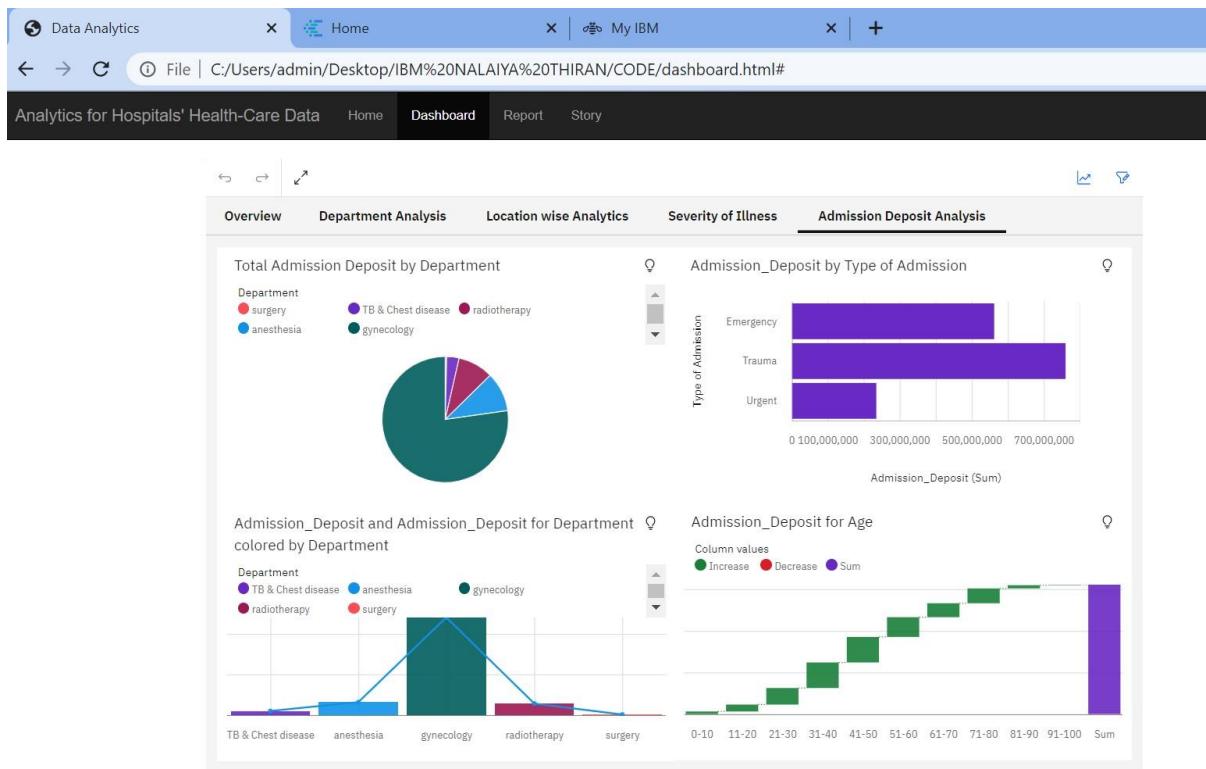
</body>
</html>

```

OUTPUT :







REPORT PAGE :

```

<!DOCTYPE html>
<html lang="en">
<head>
  <title>Data Analytics</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
  href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script
  src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
  <script
  src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-inverse ">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
    </div>
    <ul class="nav navbar-nav">

```

```

<li><a href="index.html">Home</a></li>
<li><a href="dashboard.html">Dashboard</a></li>
<li class="active"><a href="#">Report</a></li>
<li><a href="story.html">Story</a></li>
</ul>
</div>
</nav>

<div class="container">
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FReport%2FHealthCare%2BData%2BAnalytics%2BReport&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=run&format=HTML&prompt=false" width="1000" height="900" frameborder="0"
gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
<br>
</div>
</body>
</html>

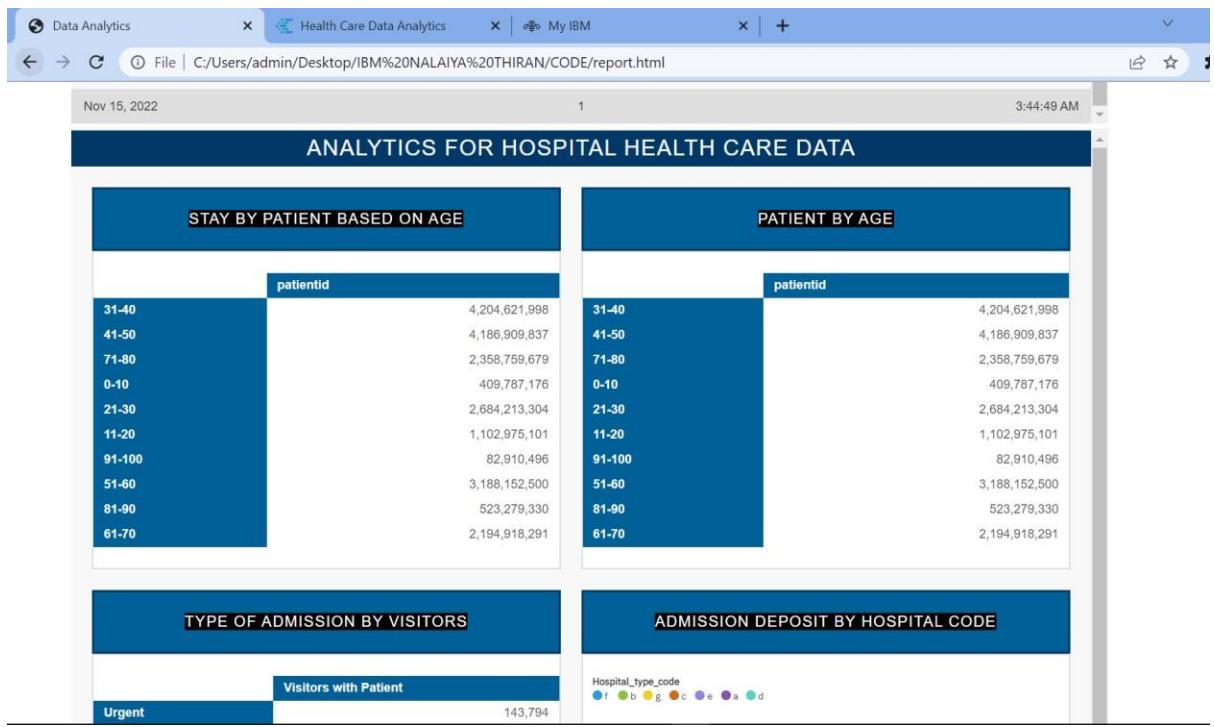
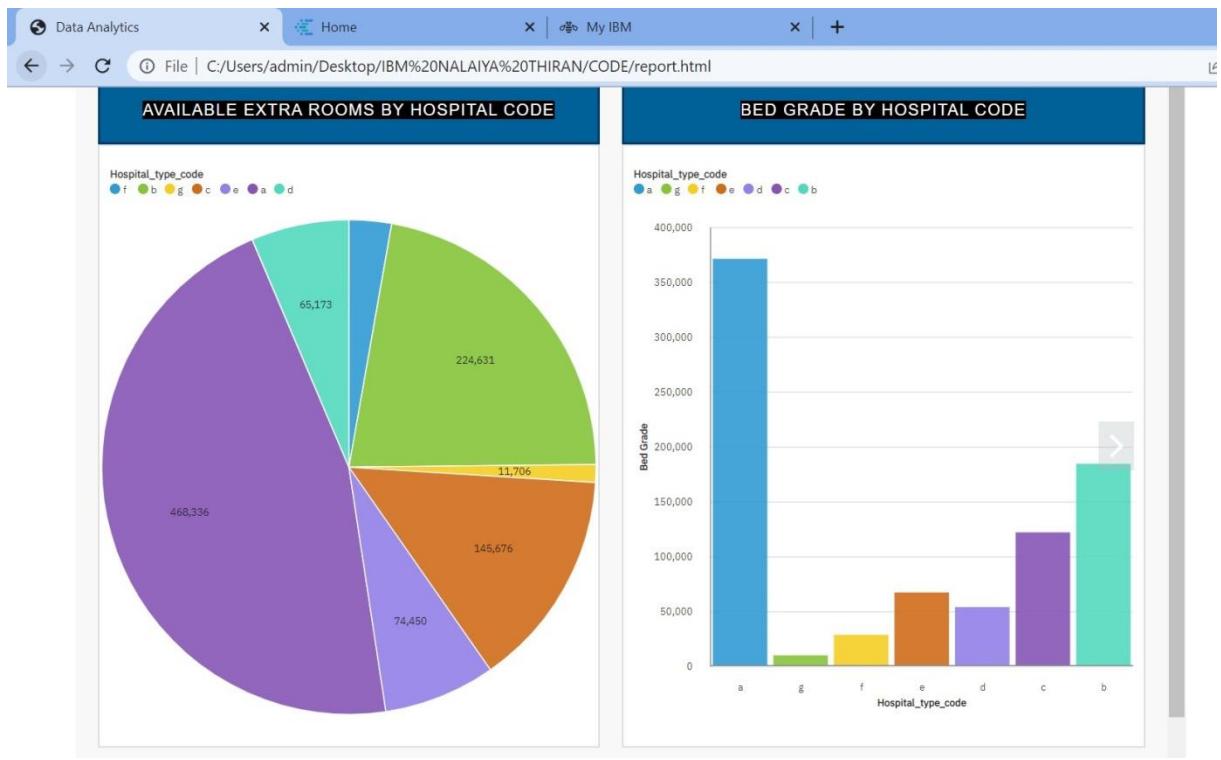
```

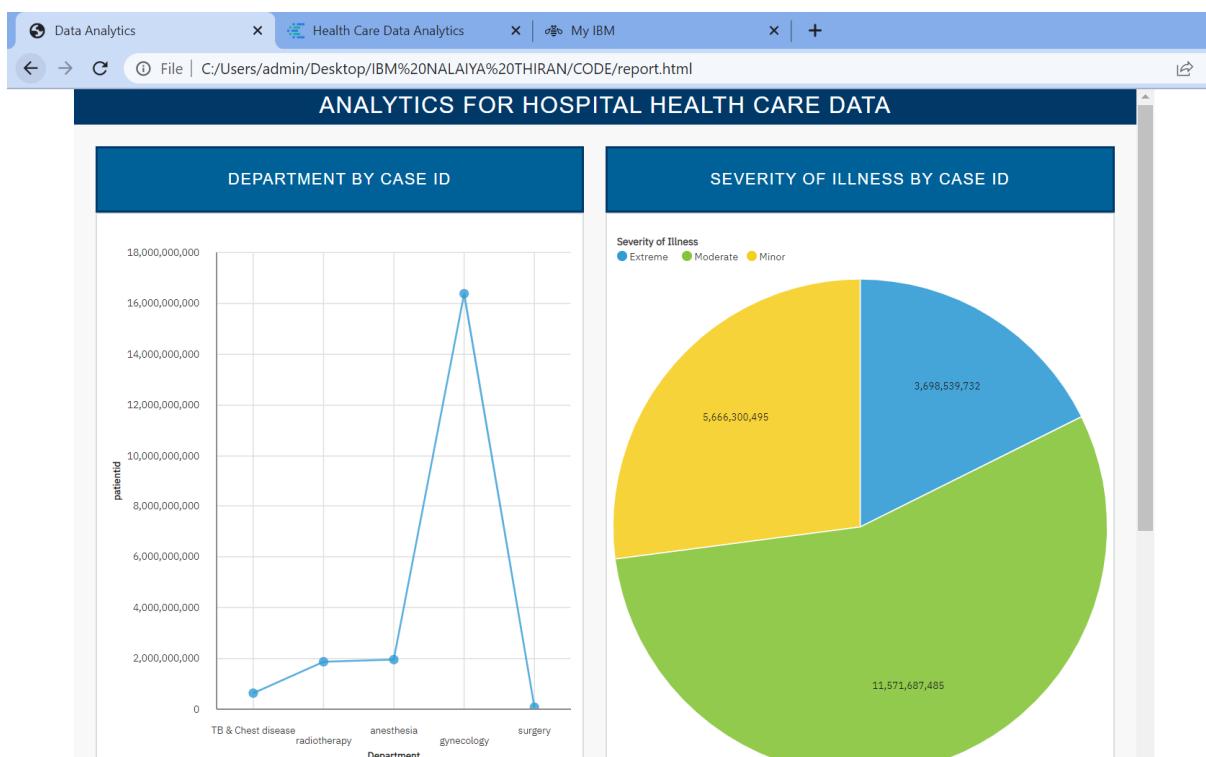
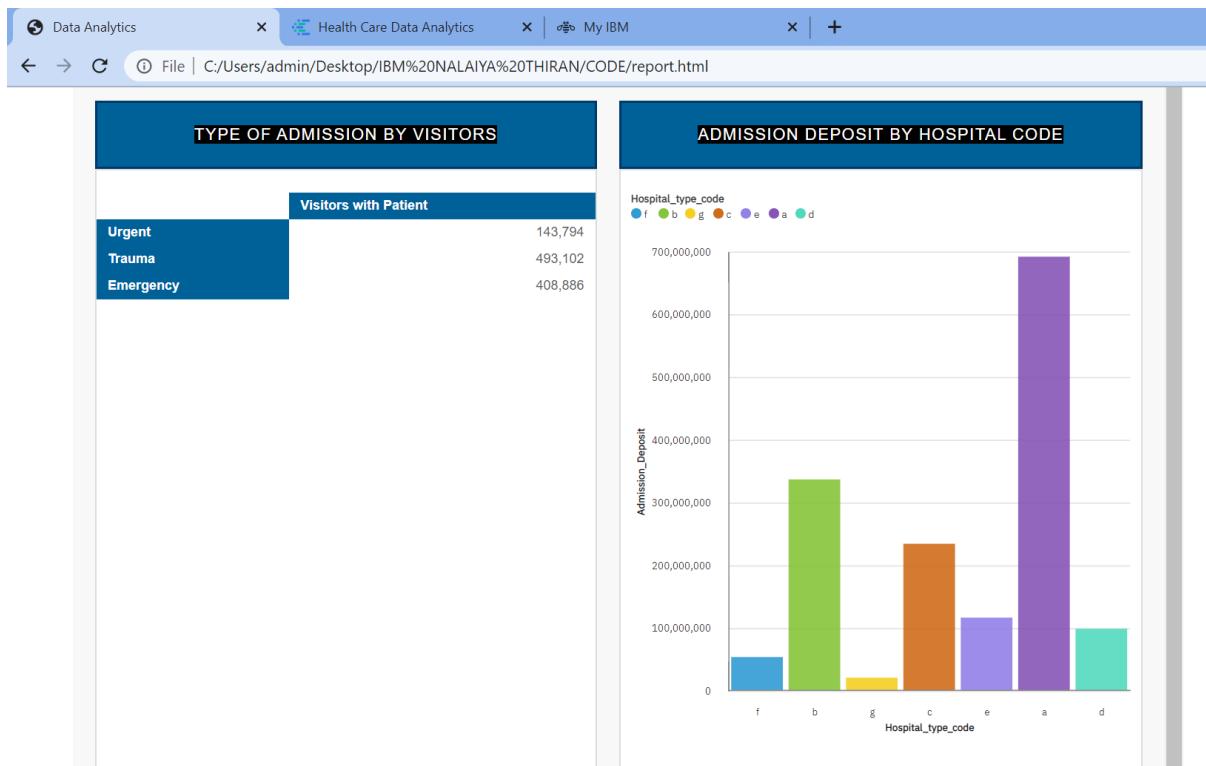
The screenshot shows a web browser window with the following details:

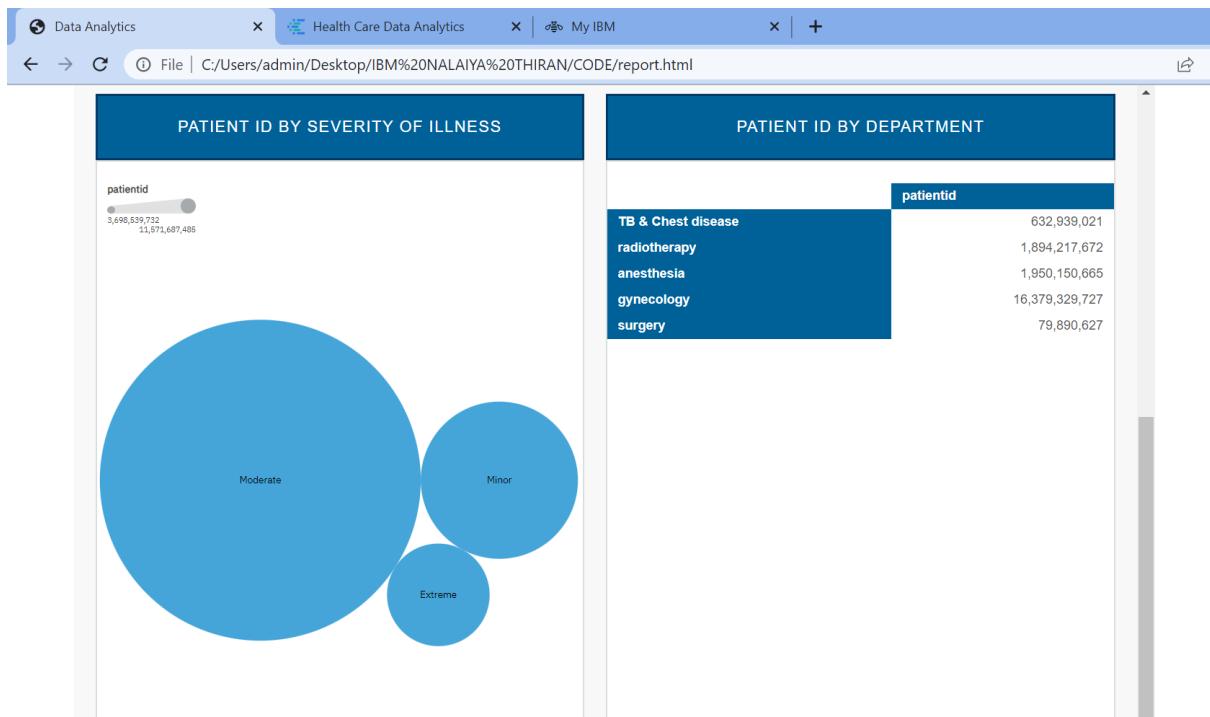
- Header:** Data Analytics, Home, My IBM.
- Address Bar:** File | C:/Users/admin/Desktop/IBM%20NALAIYA%20THIRAN/CODE/report.html
- Navigation Bar:** Analytics for Hospitals' Health-Care Data, Home, Dashboard, Report (highlighted), Story.
- Content Area:**
 - TOTAL NUMBER OF PATIENT BY TYPE OF ADMISSION:**

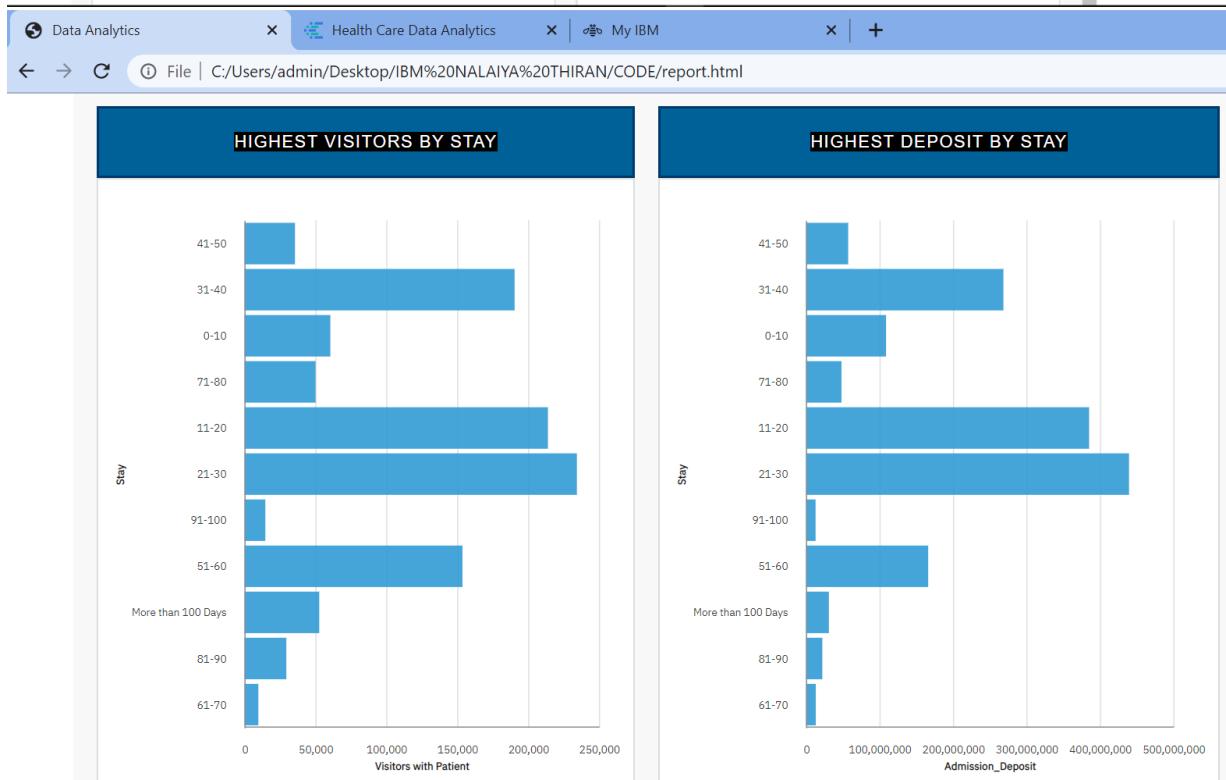
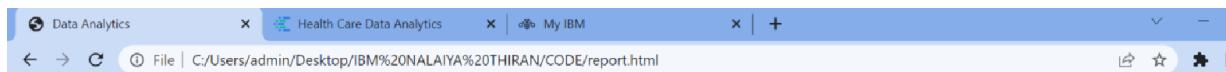
	patientid	
Urgent	3,208,577,326	
Trauma	9,992,095,510	
Emergency	7,735,854,876	
 - TOTAL NUMBER OF PATIENT BY SEVERITY OF ILLNESS:**

	patientid	
Extreme	3,698,539,732	
Moderate	11,571,687,485	
Minor	5,666,300,495	
 - AVAILABLE EXTRA ROOMS BY HOSPITAL CODE:** (Empty card)
 - BED GRADE BY HOSPITAL CODE:** (Empty card)









STORY :

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Data Analytics</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```

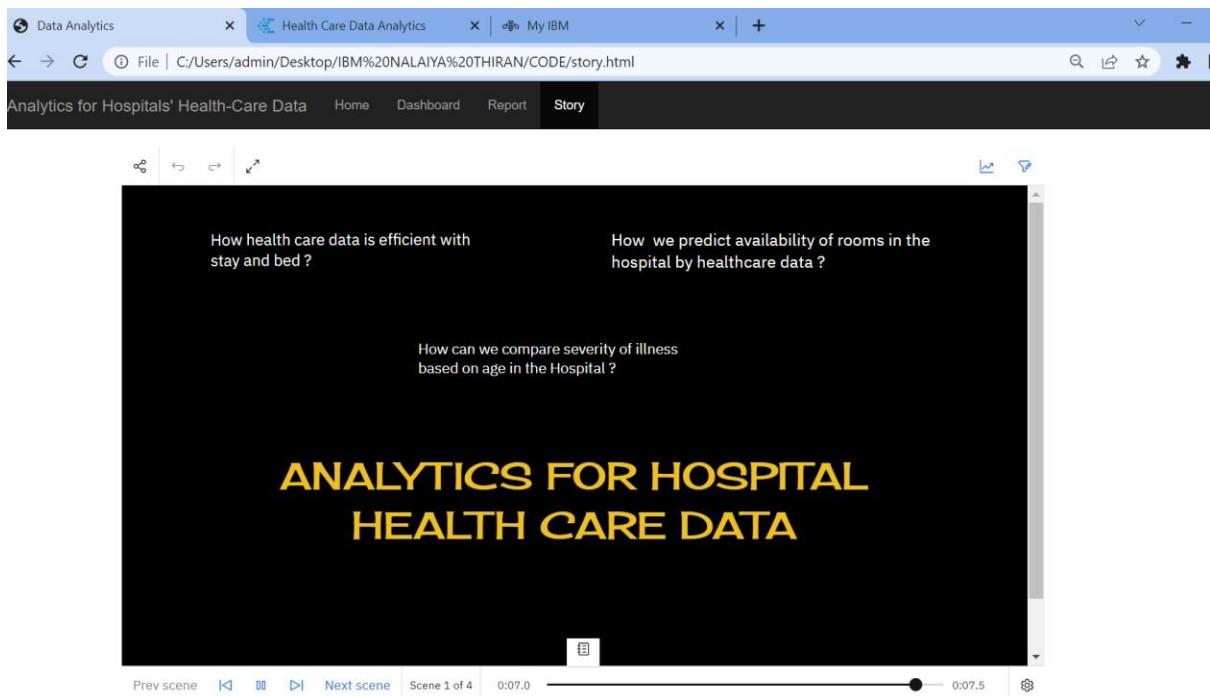
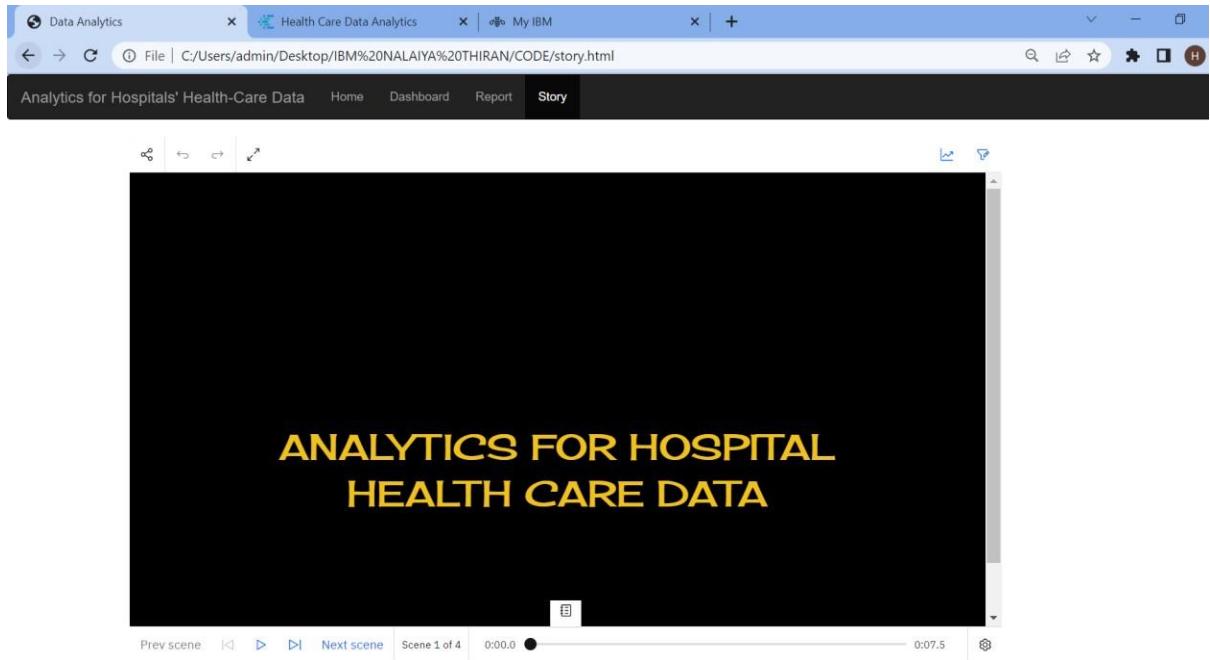
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>

<nav class="navbar navbar-inverse ">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care Data</a>
    </div>
    <ul class="nav navbar-nav">
      <li><a href="index.html">Home</a></li>
      <li><a href="dashboard.html">Dashboard</a></li>
      <li><a href="report.html">Report</a></li>
      <li class="active"><a href="#">Story</a></li>
    </ul>
  </div>
</nav>

<div class="container">
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2FStory%2FHealth%2Bcare%2Bdata%2Banalytics%2Bstory&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=view&sceneId=model000001847a5e7043_00000001&sceneTime=0"
width="1000" height="900" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
<br>
</div>
</body>
</html>

```

OUTPUT :



The screenshot shows a Data Analytics interface with a blue header bar. The title bar includes tabs for "Data Analytics", "Health Care Data Analytics", "My IBM", and a search bar. Below the header, a navigation bar has tabs for "Analytics for Hospitals' Health-Care Data", "Home", "Dashboard", "Report", and "Story". The "Story" tab is currently selected.

The main content area features a bar chart titled "Stay and Bed Grade on Illness". The chart is titled "Bed Grade by Severity of Illness colored by Bed Grade". It displays three bars representing different bed grades: "Extreme" (white), "Minor" (light purple), and "Moderate" (dark purple). The values for each category are 127,954, 451,465, and 451,465 respectively. A legend titled "Bed Grade (Sum)" shows the color mapping for the three categories.

The background of the dashboard is a blurred image of a medical professional's face and hands, with binary code visible on the right side. At the bottom, there are navigation controls for "Prev scene", "Next scene", and a progress bar indicating "Scene 2 of 4" and "0:02:1".

The dashboard features a large blue circular icon with a white cross in the top-left corner. The main title is "CASE ID BY AVAILABLE EXTRA ROOMS IN HOSPITAL". Below the title is a legend titled "Available Extra Rooms in Hospital" with the following data points:

Available Extra Rooms in Hospital	Count
24	Orange
21	Orange
13	Cyan
20	Light Blue
14	Pink
12	Purple
11	Purple
0	Dark Blue
10	Cyan
9	Cyan
8	Red
7	Light Blue
6	Cyan
5	Dark Blue
4	Cyan
3	Orange
2	Pink
1	Pink

The dashboard also includes a "patientid by Available Extra Rooms in Hospital" section with a pie chart. The chart shows the distribution of patient IDs across different room categories. The background of the dashboard is a blurred image of a medical professional's face and hands.

