

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 :

The screenshot shows a web browser window with multiple tabs. The active tab is titled "Data Analytics" and displays a dashboard for "Analytics for Hospitals' Health-Care Data". The dashboard includes a navigation bar with "Home", "Dashboard", "Report", and "Story" links. Below the navigation bar, a grey box displays the "Team ID : PNT2022TMID12523". A table below this box lists team members:

Team Leader	Ruthra S.J S
Team member 1	Shalini M
Team member	Thiruveni B
Team member	Bharathi S

At the bottom of the browser window, a Windows taskbar is visible, showing the search bar, taskbar icons, and system tray information including the date and time (12:18 PM, 19-Nov-22).

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"></scrip
t>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></sc
ript>
</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.

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.

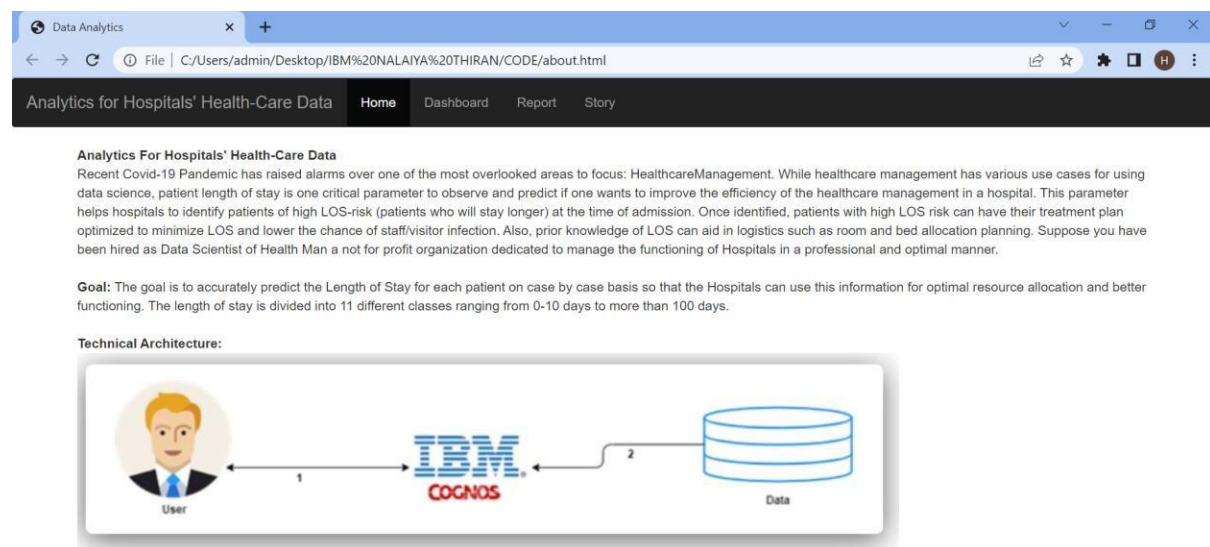
Technical Architecture:

</div>

</body>

</html>

OUTPUT :



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"></scrip
t>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></sc
ript>
</head>
<body>

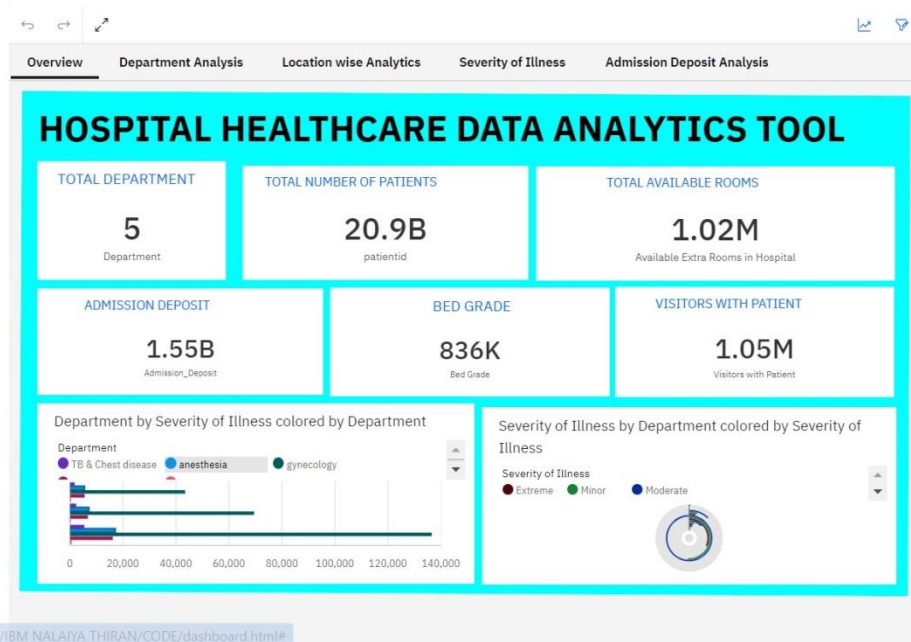
<nav class="navbar navbar-inverse ">
  <div class="container-fluid">
    <div class="navbar-header">
      <a class="navbar-brand" href="#">Analytics for Hospitals' Health-Care
Data</a>
    </div>
    <ul class="nav navbar-nav">
      <li><a href="index.html">Home</a></li>
      <li class="active"><a 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=.m
y_folders%2FDashboard%2FHealth%2BCare%2BData%2BAnalytics&closeWindowOnLast
View=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&a
ction=view&mode=dashboard&subView=model0000018476584e12_00000000"
width="1100" height="600" frameborder="0" gesture="media" allow="encrypted-
media" allowfullscreen=""></iframe>
</div>

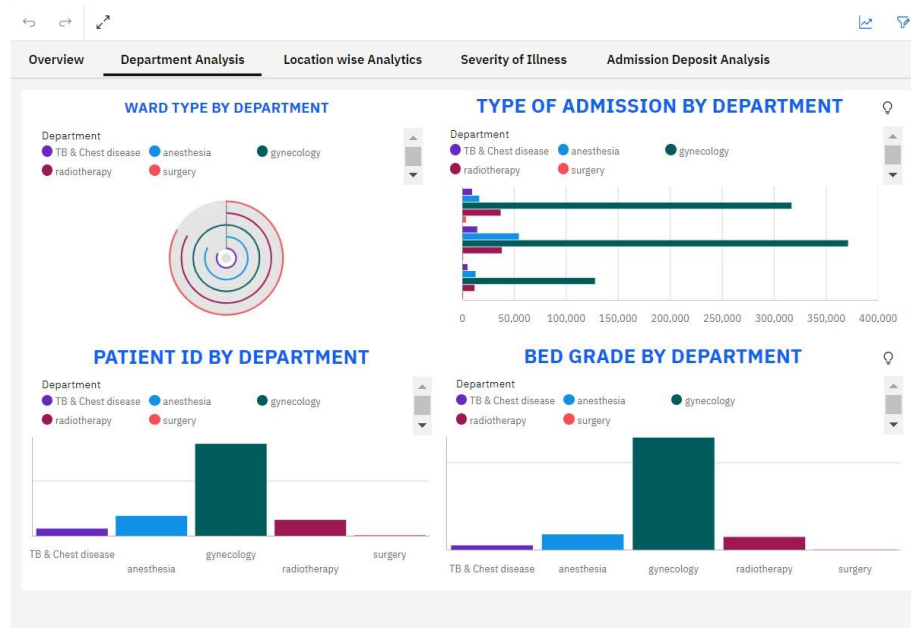
</body>
</html>

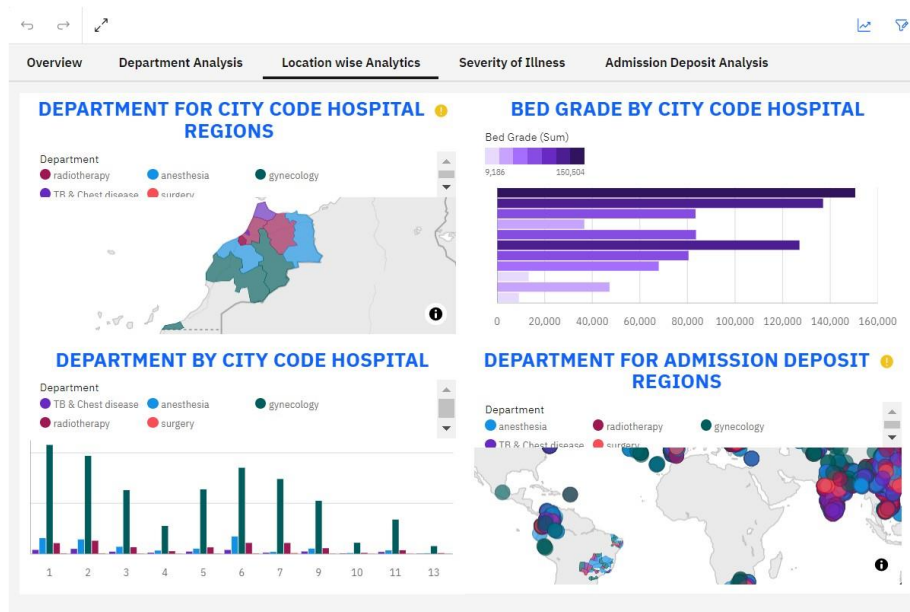
```

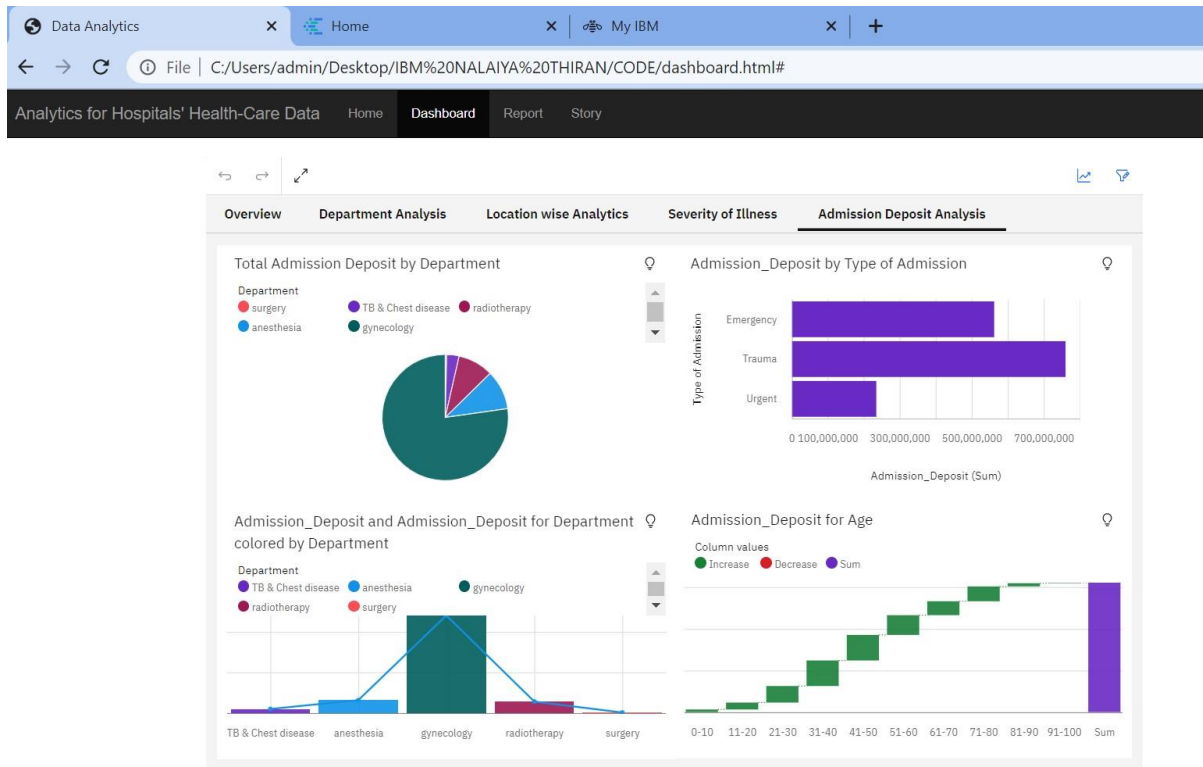
OUTPUT :



file:///C:/Users/admin/Desktop/IBM NALAIYA THIRAN/CODE/dashboard.html#







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"></scrip
t>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></sc
ript>
</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">
```



```

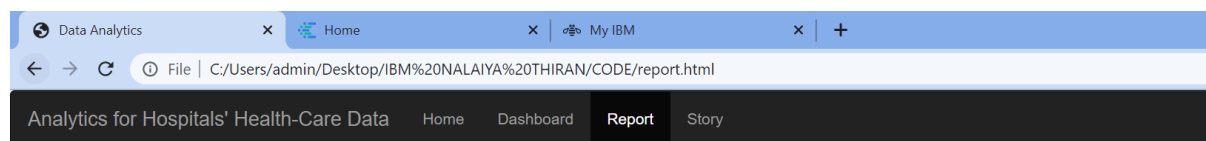
<li><a href="index.html">Home</a></li>
<li><a href="dashboard.html">Dashboard</a></li>
<li class="active"><a href="#">Report</a></li>
<li><a href="story.html">Story</a></li>
</ul>
</div>
</nav>

<div class="container">
  <iframe
src="https://us1.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FReport%2FHealth%2BCare%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>

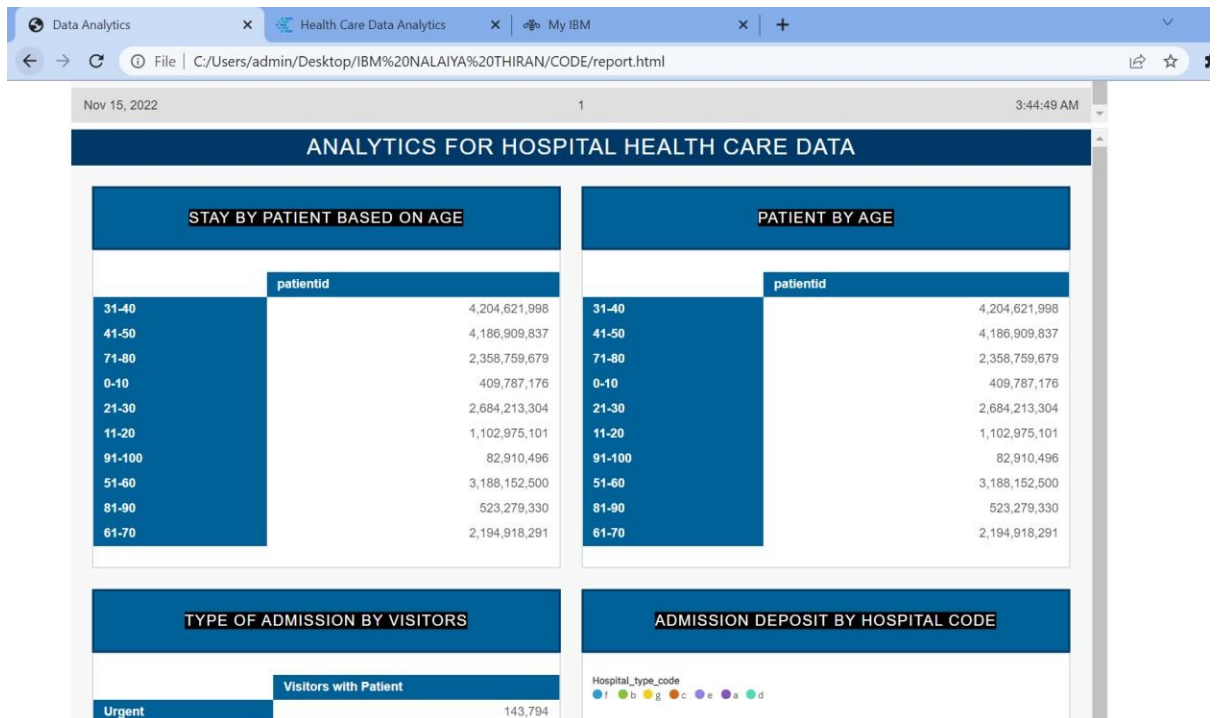
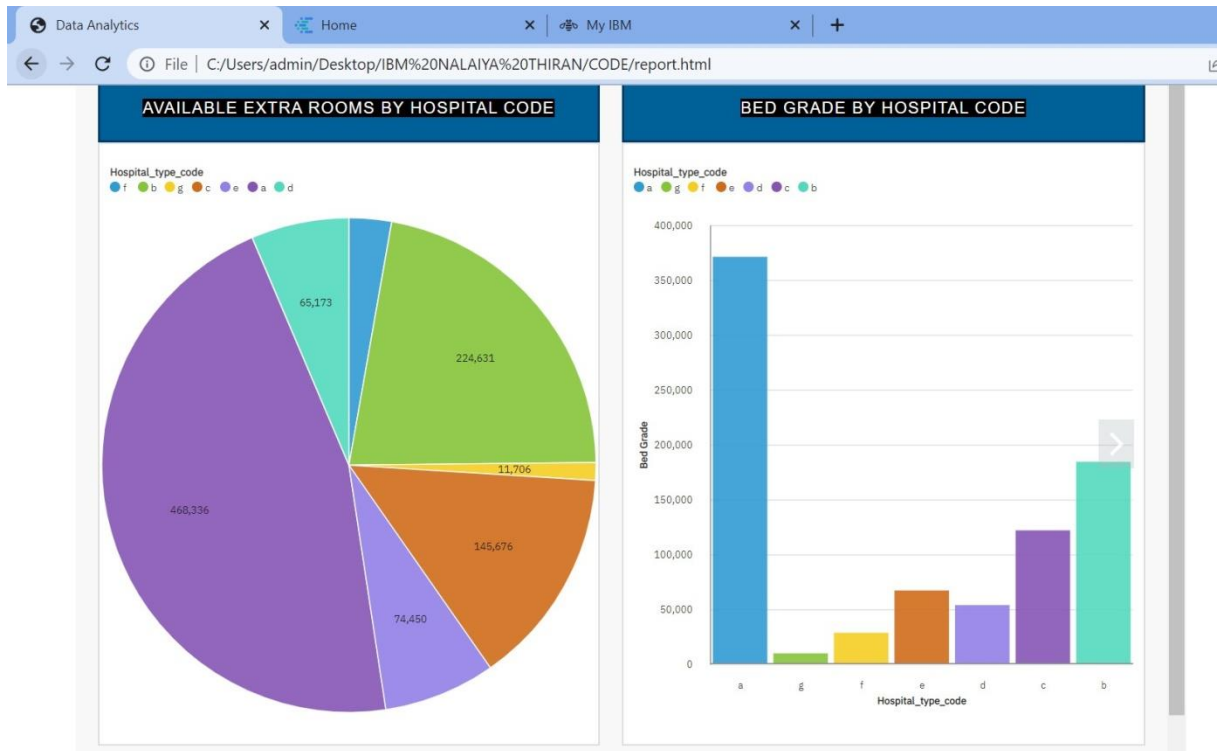
</div>

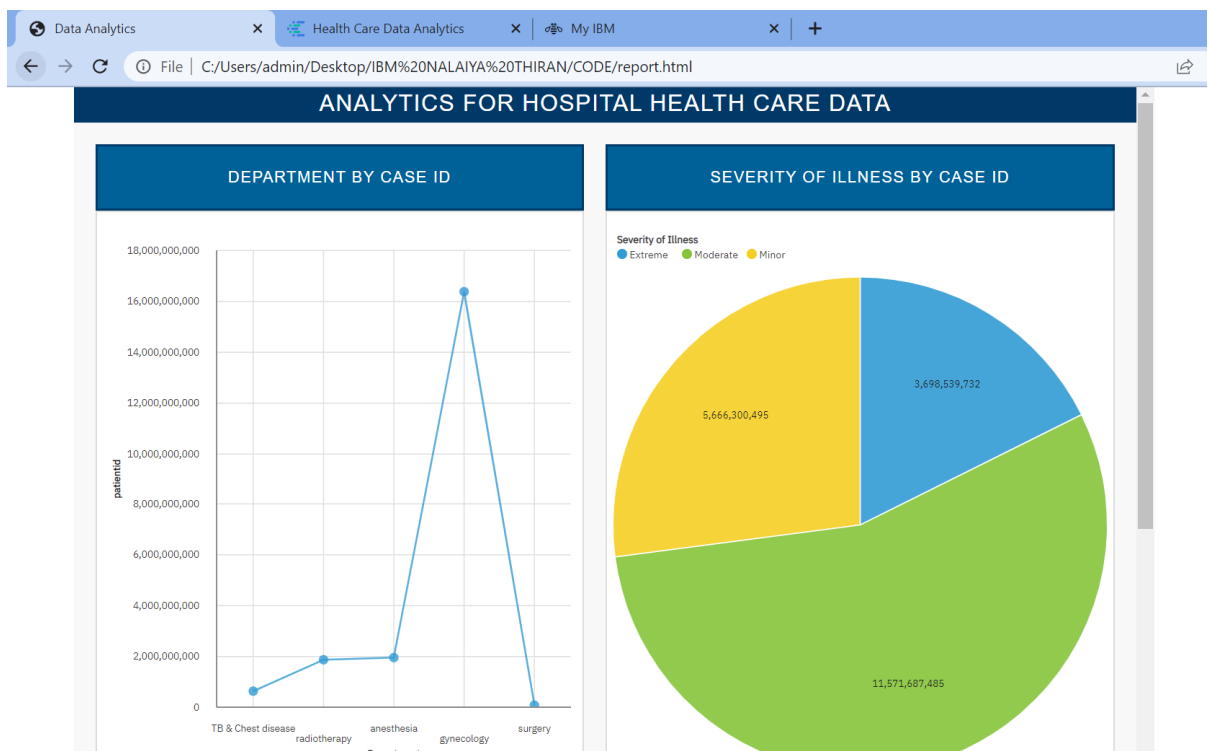
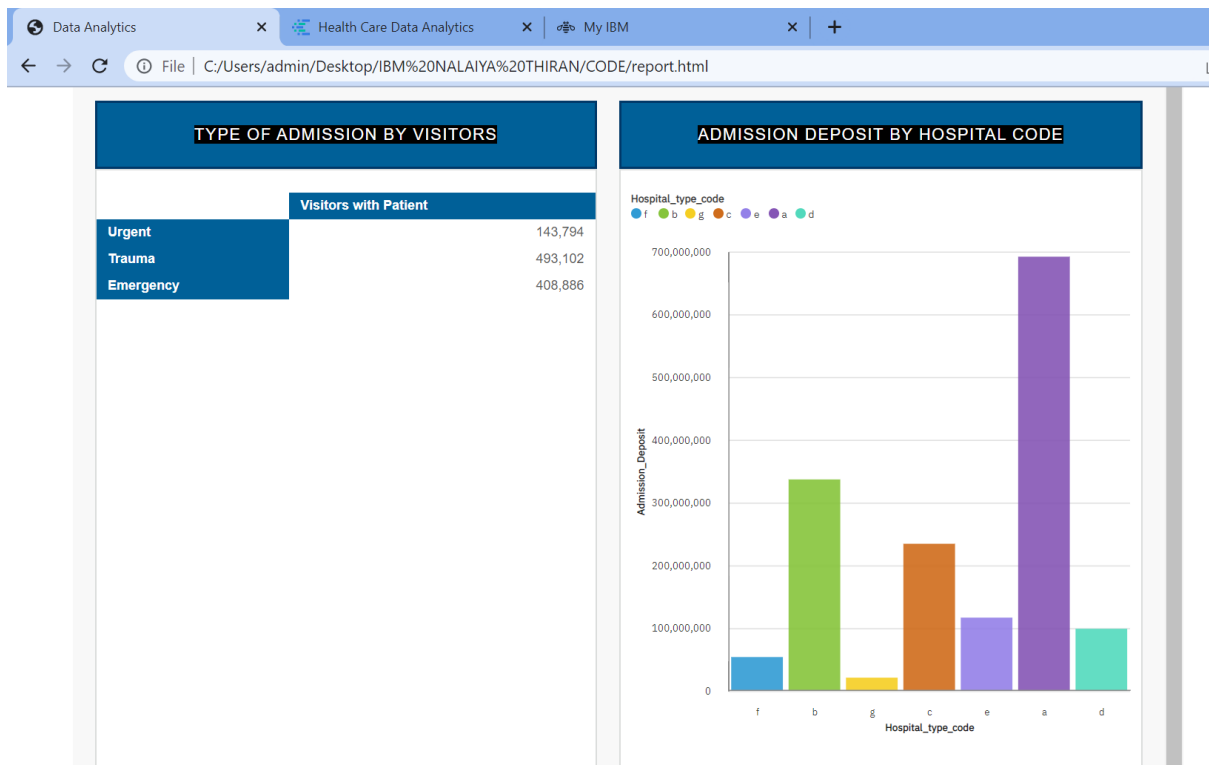
</body>
</html>

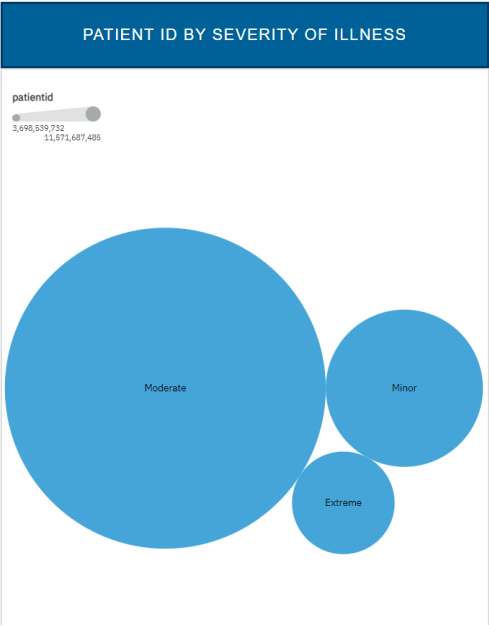
```



ANALYTICS FOR HOSPITAL HEALTHCARE DATA																					
<table> <tr> <th colspan="2">TOTAL NUMBER OF PATIENT BY TYPE OF ADMISSION</th></tr> <tr> <th></th><th>patientid</th></tr> <tr> <td>Urgent</td><td>3,208,577,326</td></tr> <tr> <td>Trauma</td><td>9,992,095,510</td></tr> <tr> <td>Emergency</td><td>7,735,854,876</td></tr> </table>	TOTAL NUMBER OF PATIENT BY TYPE OF ADMISSION			patientid	Urgent	3,208,577,326	Trauma	9,992,095,510	Emergency	7,735,854,876	<table> <tr> <th colspan="2">TOTAL NUMBER OF PATIENT BY SEVERITY OF ILLNESS</th></tr> <tr> <th></th><th>patientid</th></tr> <tr> <td>Extreme</td><td>3,698,539,732</td></tr> <tr> <td>Moderate</td><td>11,571,687,485</td></tr> <tr> <td>Minor</td><td>5,666,300,495</td></tr> </table>	TOTAL NUMBER OF PATIENT BY SEVERITY OF ILLNESS			patientid	Extreme	3,698,539,732	Moderate	11,571,687,485	Minor	5,666,300,495
TOTAL NUMBER OF PATIENT BY TYPE OF ADMISSION																					
	patientid																				
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AVAILABLE EXTRA ROOMS BY HOSPITAL CODE	BED GRADE BY HOSPITAL CODE																				



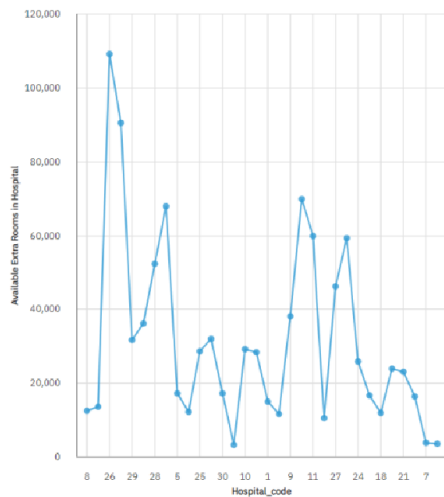




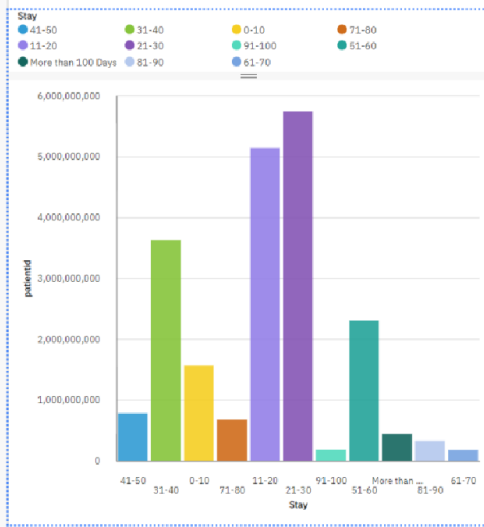
PATIENT ID BY DEPARTMENT

	patientid
TB & Chest disease	632,939,021
radiotherapy	1,894,217,672
anesthesia	1,950,150,665
gynecology	16,379,329,727
surgery	79,890,627

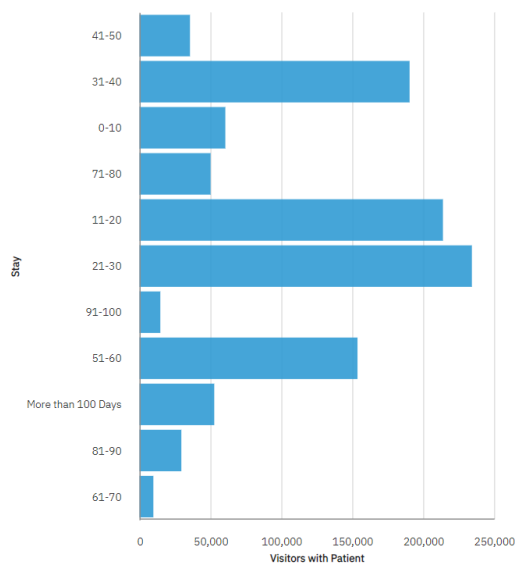
EXTRA AVAILABLE ROOMS IN HOSPITAL BY HOSPITAL CODE



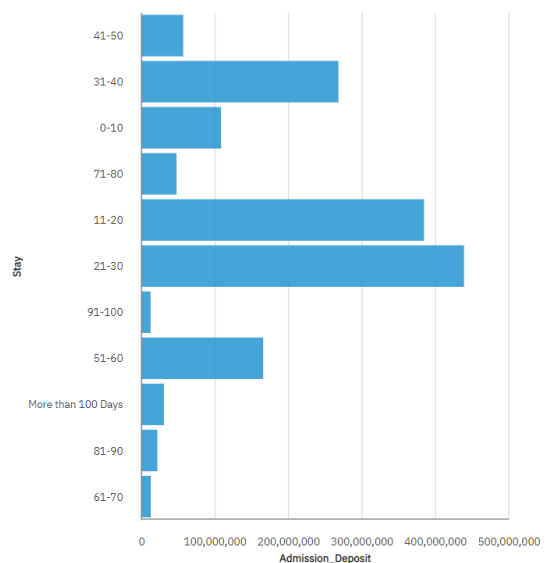
PATIENT ID BY STAY



HIGHEST VISITORS BY STAY



HIGHEST DEPOSIT BY STAY



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">
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ript>
</head>
<body>

<nav class="navbar navbar-inverse ">
  <div class="container-fluid">
    <div class="navbar-header">
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      <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_fo
lders%2FStory%2FHealth%2Bcare%2Bdata%2Banalytics%2Bstory&closeWindowOnLast
View=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 :

