

<b>TEAM ID</b>	<b>PNT2022TMID20389</b>
<b>PROJECT NAME</b>	<b>Analytics for Hospital's Health Care Data</b>

<b><u>Team Members</u></b>
Haritha Shanmathi S [Team Lead] - 727819TUCS048
Gayathri M J
Jeya varshaa M
Akila Umesh

## **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 : PNT2022TMID20389 </b></i></h4></center>

</div>
```

```

<table class="table table-bordered">

  <tbody>
    <tr>
      <td>Team Leader</td>
      <td>Haritha Shanmathi S</td>

    </tr>
    <tr>
      <td>Team member</td>
      <td>Jeya Varshaa M</td>

    </tr>
    <tr>
      <td>Team member</td>
      <td>Gayathri M J</td>

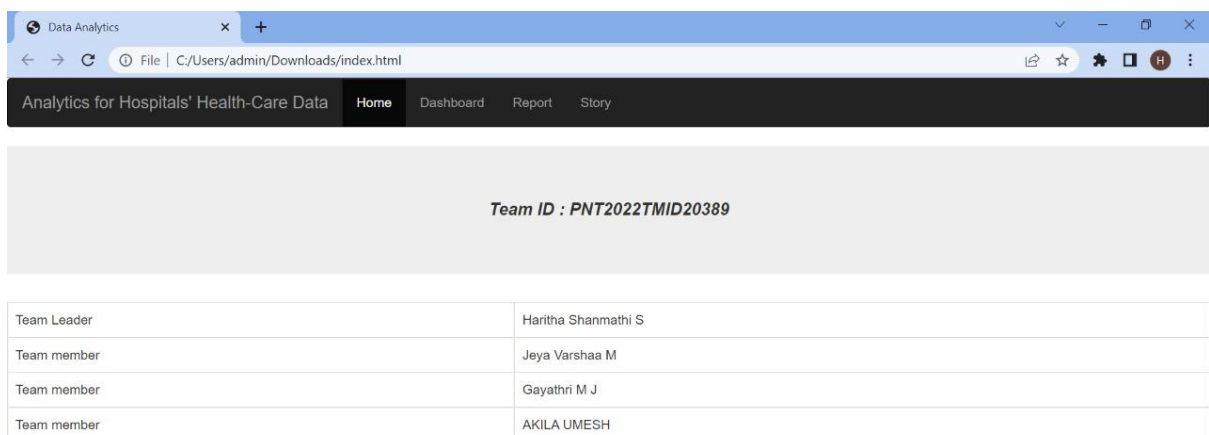
    </tr>
    <tr>
      <td>Team member</td>
      <td>Akila Umesh</td>

    </tr>

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

```

## OUTPUT :



Team ID : PNT2022TMID20389	
Team Leader	Haritha Shanmathi S
Team member	Jeya Varshaa M
Team member	Gayathri M J
Team member	AKILA UMESH

## 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.

<br><br>

<b>Goal:</b>

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.

<br><br>

<b>Technical Architecture:</b>

<br>

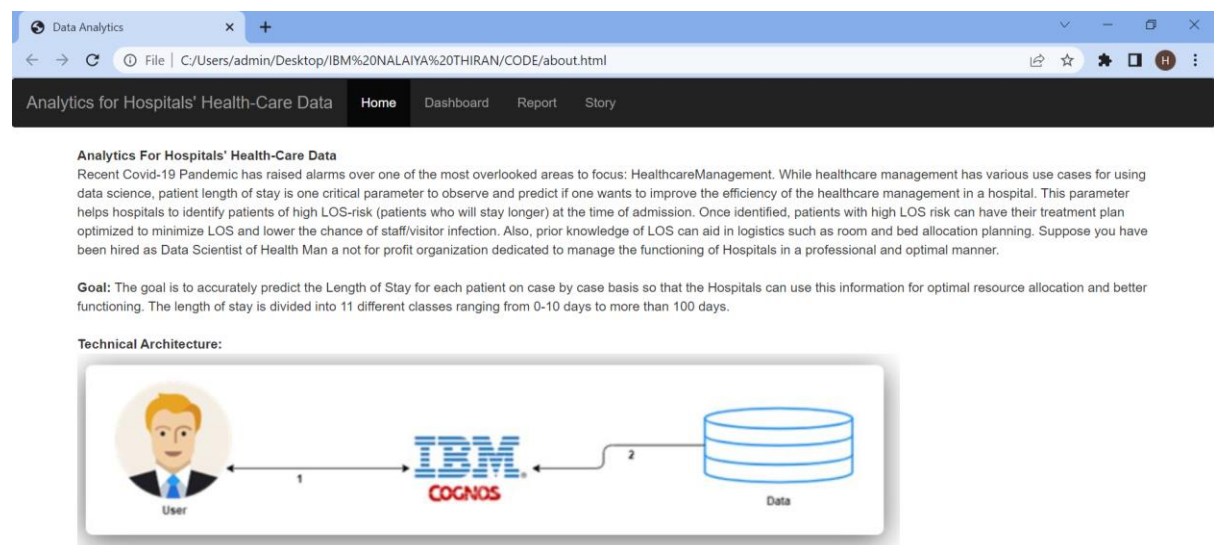


</div>

</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=.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 :



Overview

Department Analysis

Location wise Analytics

Severity of Illness

Admission Deposit Analysis

## HOSPITAL HEALTHCARE DATA ANALYTICS TOOL

TOTAL DEPARTMENT

5

Department

TOTAL NUMBER OF PATIENTS

20.9B

patientid

TOTAL AVAILABLE ROOMS

1.02M

Available Extra Rooms in Hospital

ADMISSION DEPOSIT

1.55B

Admission\_Deposit

BED GRADE

836K

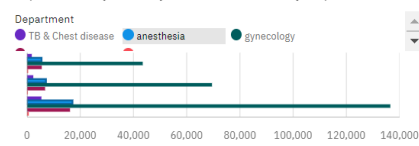
Bed Grade

VISITORS WITH PATIENT

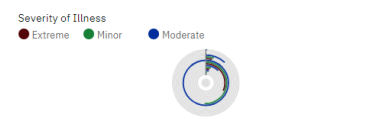
1.05M

Visitors with Patient

Department by Severity of Illness colored by Department



Severity of Illness by Department colored by Severity of Illness



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

Data Analytics

Home

My IBM

File | C:/Users/admin/Desktop/IBM%20NALAIYA%20THIRAN/CODE/dashboard.html#



Overview

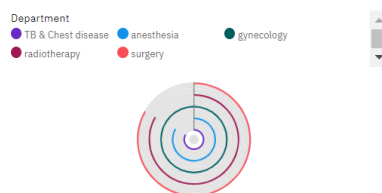
Department Analysis

Location wise Analytics

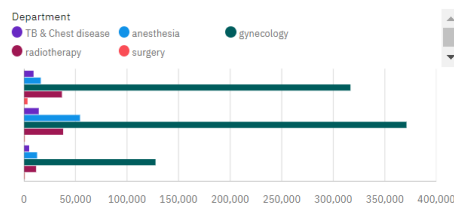
Severity of Illness

Admission Deposit Analysis

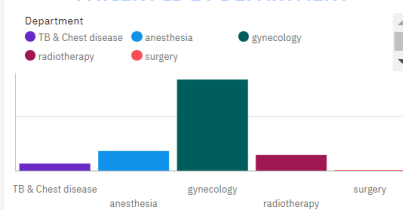
WARD TYPE BY DEPARTMENT



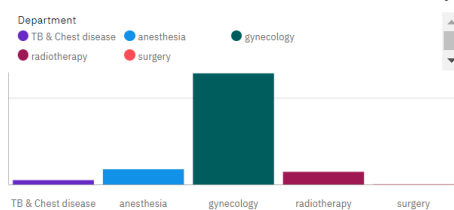
TYPE OF ADMISSION BY DEPARTMENT

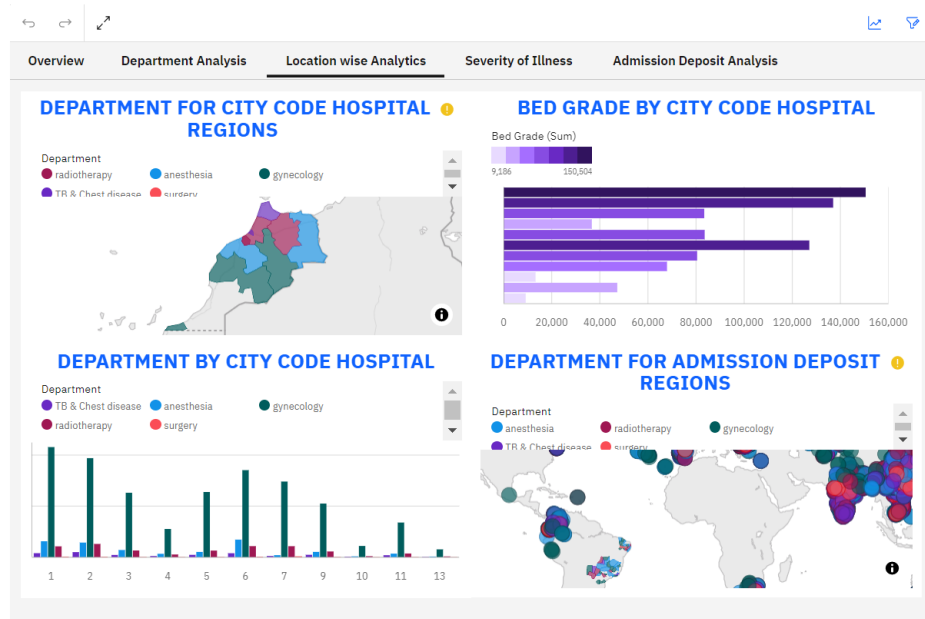


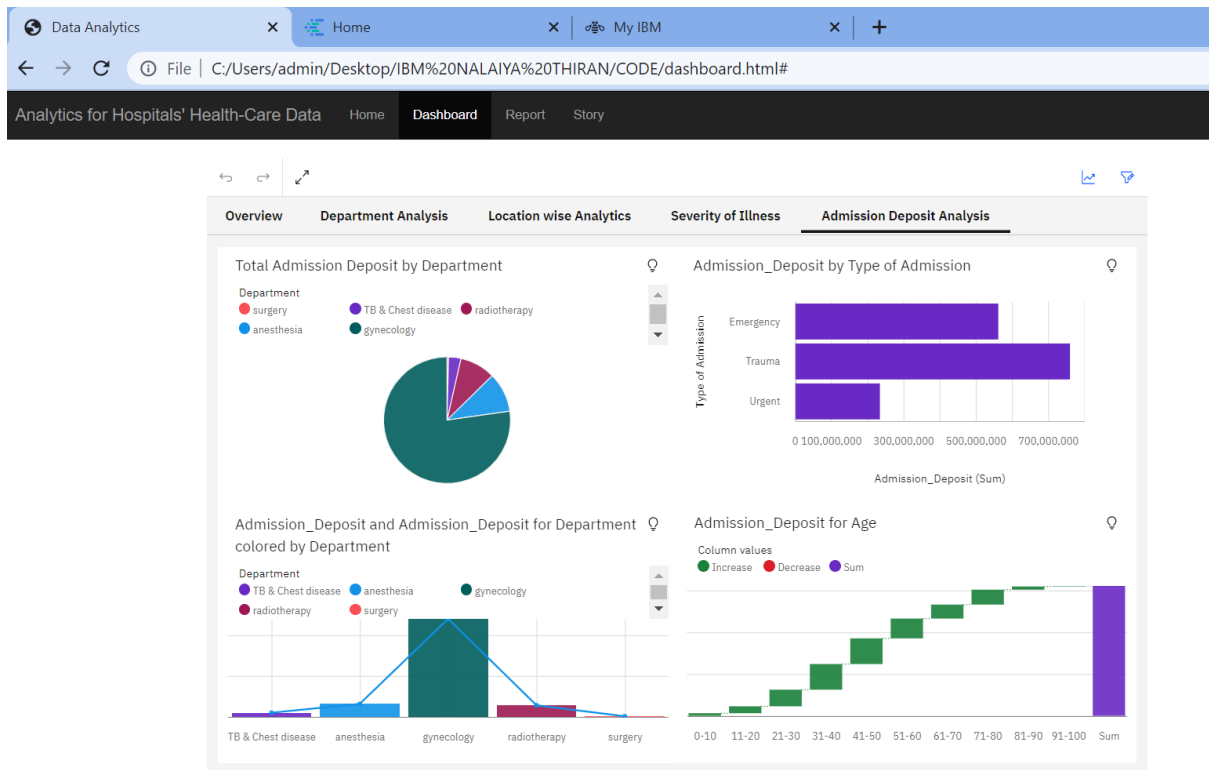
PATIENT ID BY DEPARTMENT



BED GRADE BY DEPARTMENT







## 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 Hospitals' Health-Care Data

Home Dashboard **Report** Story

### ANALYTICS FOR HOSPITAL HEALTHCARE DATA

#### TOTAL NUMBER OF PATIENT BY TYPE OF ADMISSION

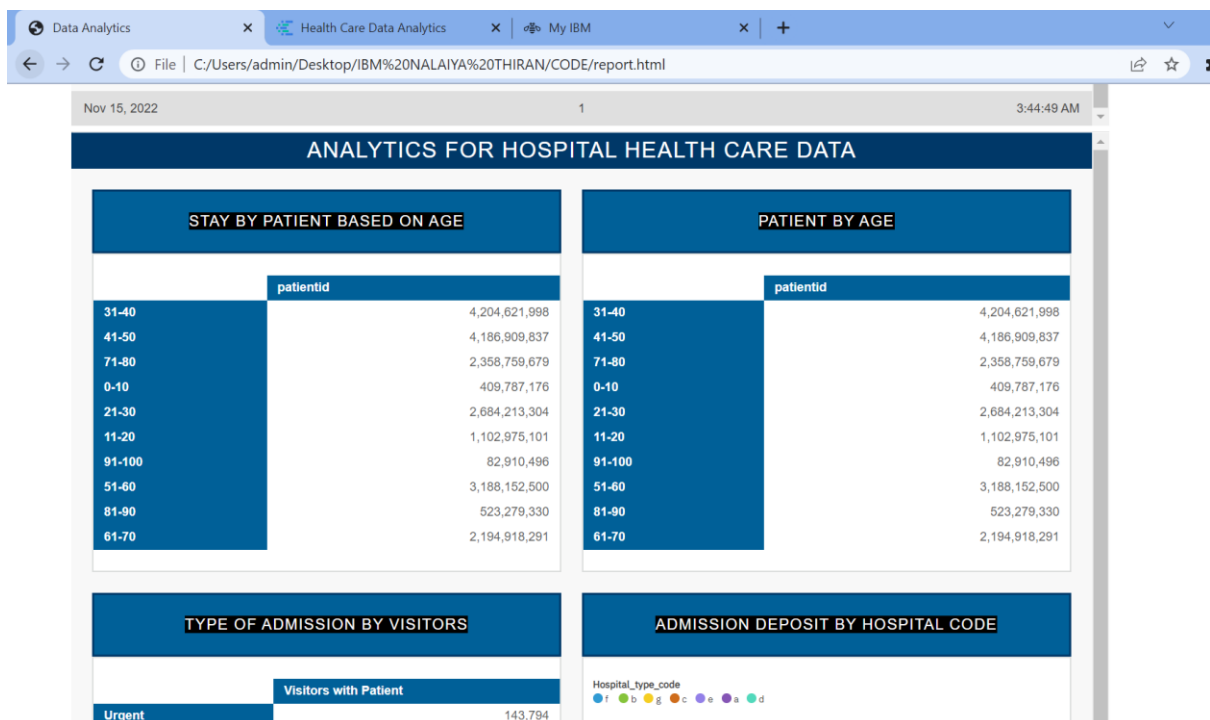
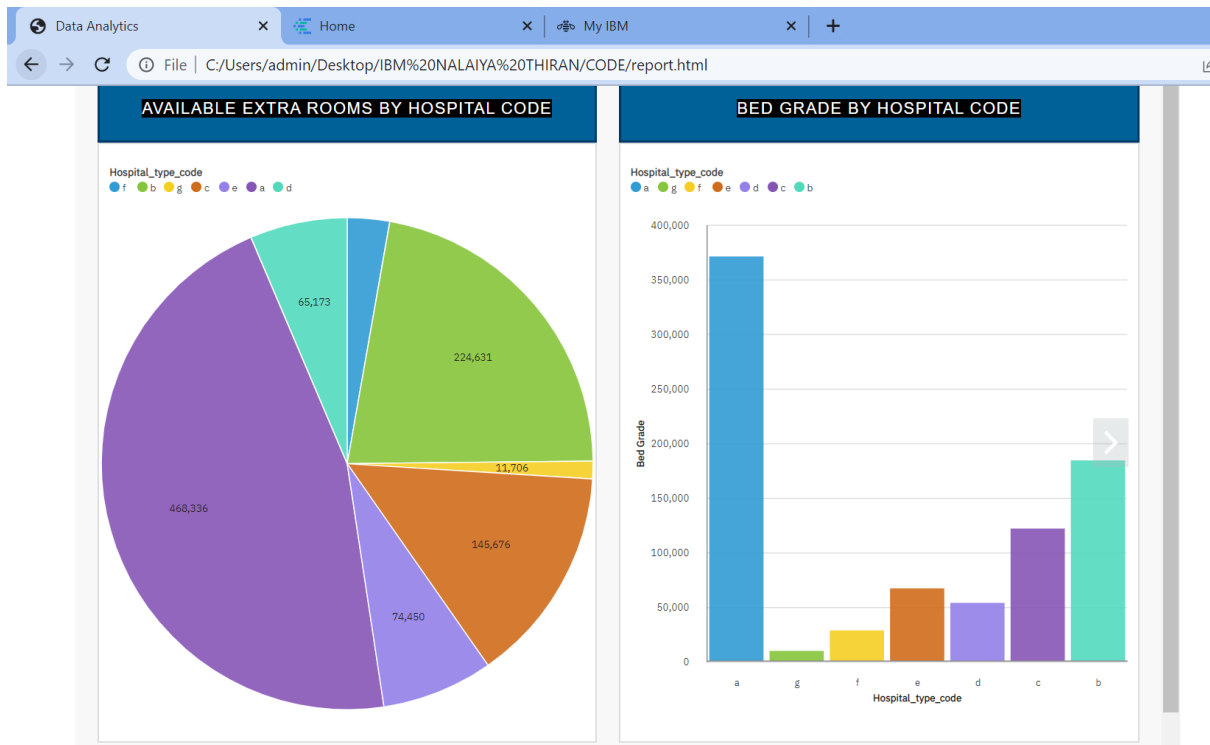
	patientid
Urgent	3,208,577,326
Trauma	9,992,095,510
Emergency	7,735,854,876

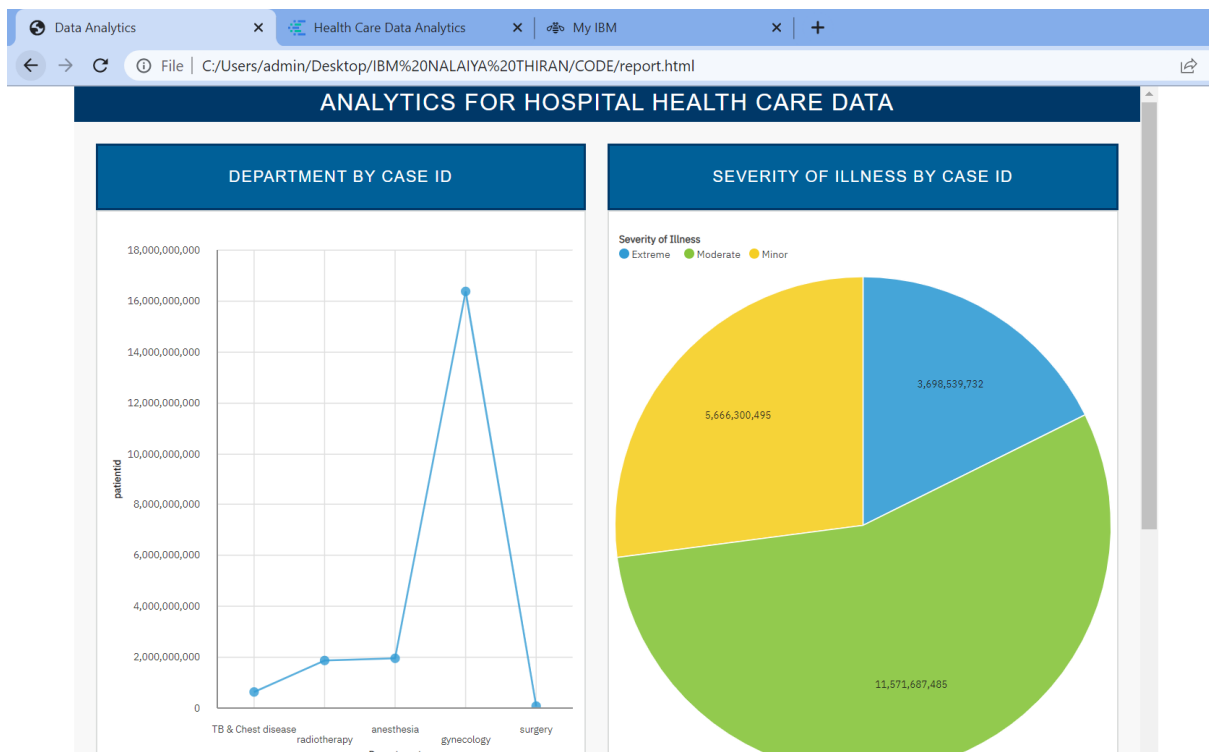
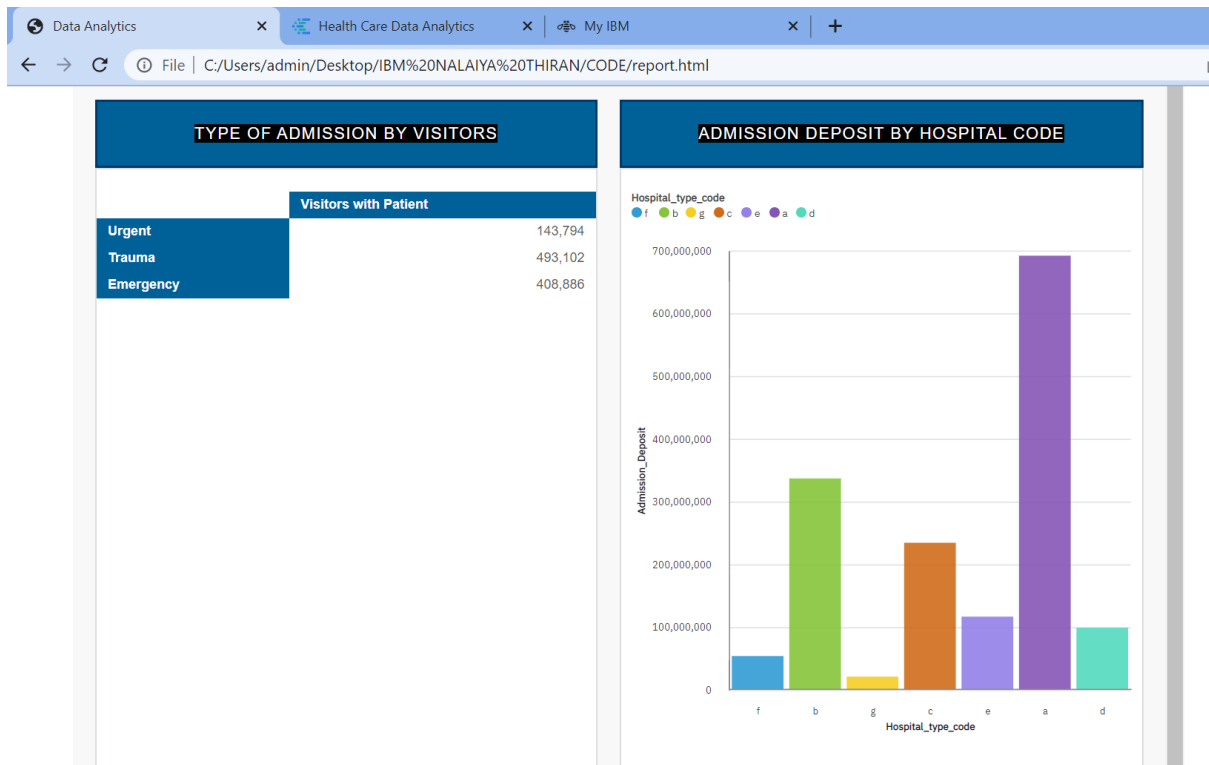
#### TOTAL NUMBER OF PATIENT BY SEVERITY OF ILLNESS

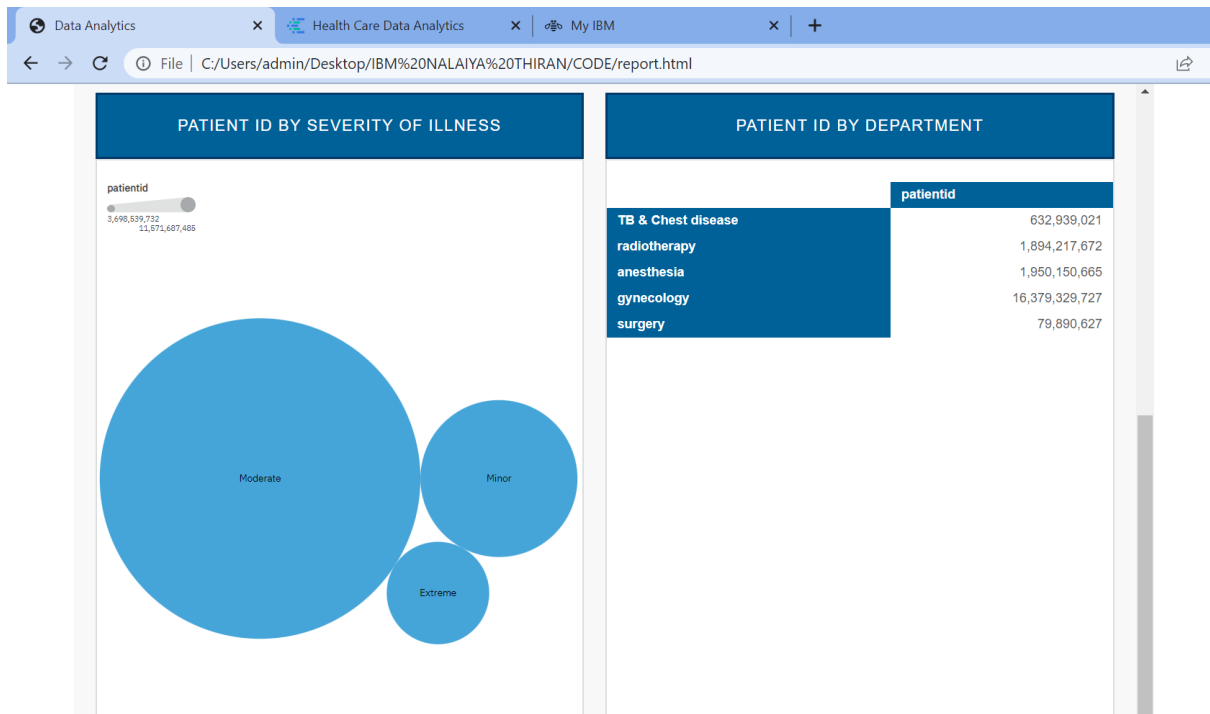
	patientid
Extreme	3,698,539,732
Moderate	11,571,687,485
Minor	5,666,300,495

#### AVAILABLE EXTRA ROOMS BY HOSPITAL CODE

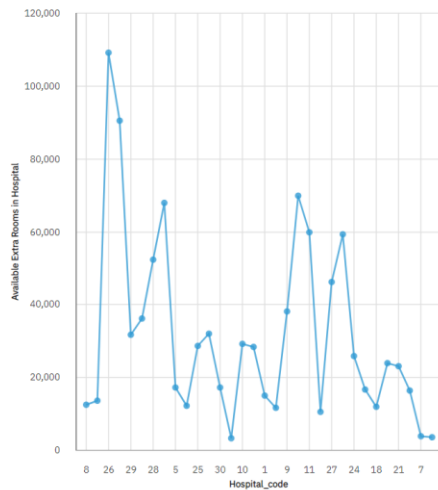
#### BED GRADE BY HOSPITAL CODE



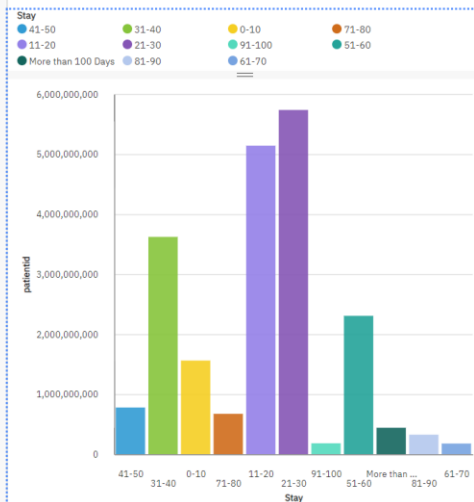




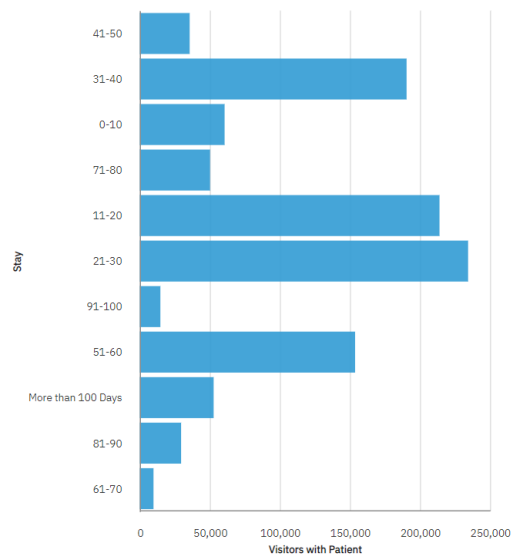
### EXTRA AVAILABLE ROOMS IN HOSPITAL BY HOSPITAL CODE



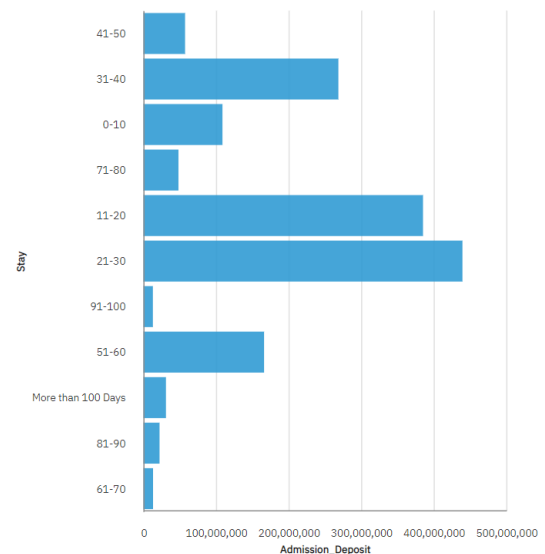
### PATIENT ID BY STAY



### 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">
</head>
</html>
```

```

<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><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 :

