Analyzing The Performance& Efficiency Of The Radisson Hotels Using Data Visualization Techniques

1. INTRODUCTION

1.1 Overview

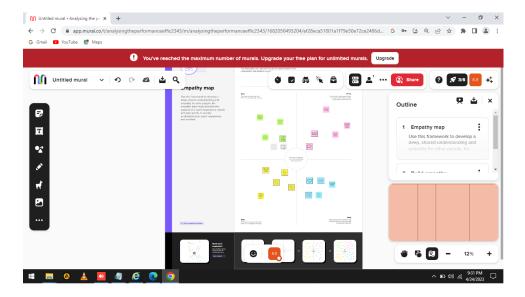
The hotel industry is a broad category of businesses that provide lodging services for travellers an tourists. This can include a wide range of establishments, from luxury resorts to budgets-friendly motels, as well as extended stay hotels, botique hotels, and more. Hotels can be found in nearly every corner of the world, and are often major component of the tourism and travel industry in given area .

1.2 Purpose

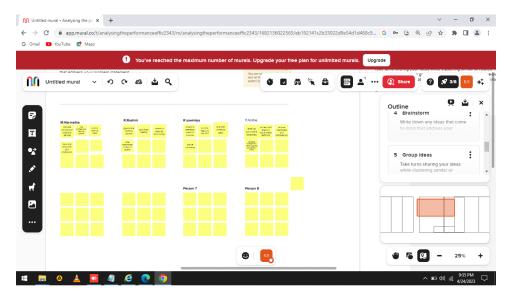
A literature survey is a method of researching existing literature and studies related to a specific topic. In the context of analyzing the performance and efficiency of radisson Hotels, a literature survey would involve reviewing studies and articles that have been published on the topic of hotel performance and efficiency, as well as studies specific to radisson hotels.

2. Promblem Definition & Design Thinking

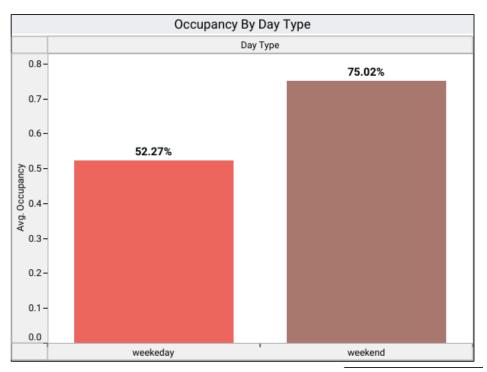
2.1 Empathy Map

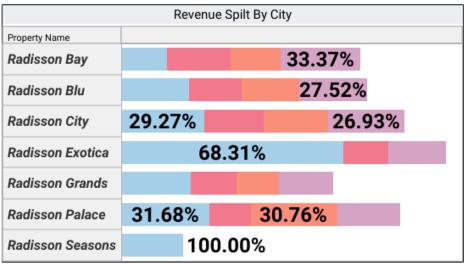


2.2 Ideation & Brainstorming Map

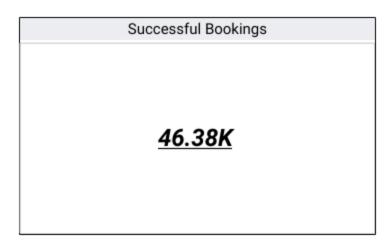


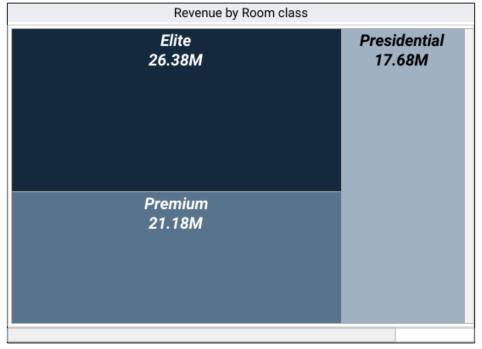
3.RESULT

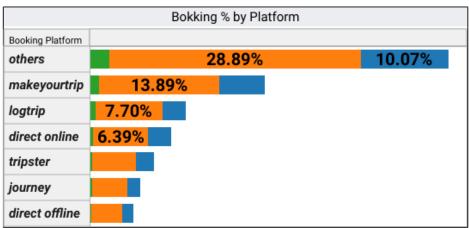




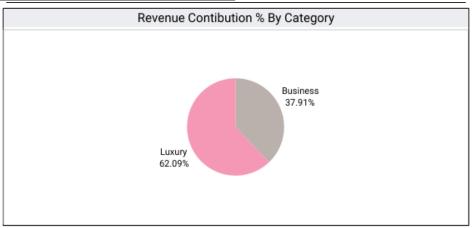
	Occ	upancy Spilt E	By City		
Property Name					
Radisson Bay	19.53%	28.55%	23.18%	28.73%	
Radisson Blu	26.94%	25.76	% 26 .1	18% 21.	12%
Radisson City	22.16%	27.88%	22.23%	27.73%	6
Radisson Exotica	5	7.04%	19.46% 23.51%		
Radisson Grands	24.78%	24.32%	30.51%	20.40%	
Radisson Palace	27.39%	22.38%	27.879	22.37	'%
Radisson Seasons	1	00.00%			

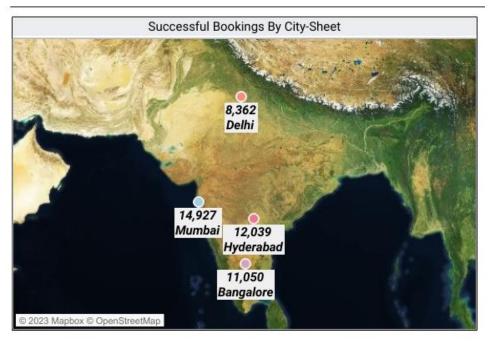


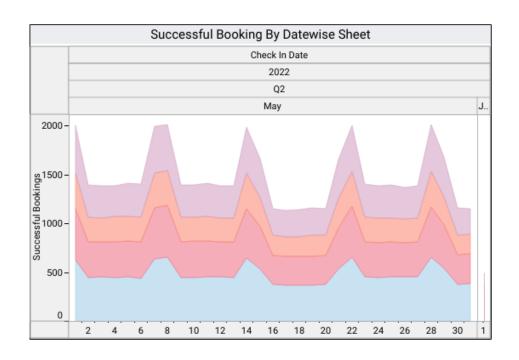




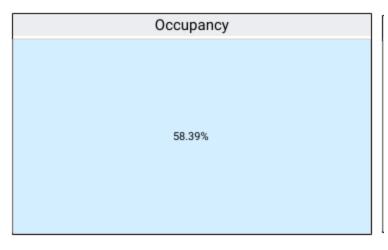
Property By Key Metrices							
Property Name	Property I	Revenue	Capacity	Successful Booki	Occupancy %	Cancelled Booking	
Radisson Bay	16562	2.43M\$	3,112	1,661	53.37%	30.70%	
	17562	2.20M\$	2,593	1,173	45.24%	32.28%	
	18562	3.10M\$	3,789	. 2,522	66.56%	26.20%	
	19562	3.87M\$	3,029	2,014	66.49%	23.05%	
	16561	2.80M\$	2,305	1,530	66.38%	26.39%	
Radisson Blu	17561	3.31M\$	2,697	1,778	65.93%	21.15%	
	18561	2.54M\$	3,350	2,224	66.39%	26.33%	
	19561	3.28M\$	3,663	1,978	54.00%	31.94%	
	16560	3.11M\$	2,979	1,604	53.84%	23.40%	
Radisson City	17560	4.02M\$	3,853	2,074	53.83%	23.81%	
Radisson City	18560	2.90M\$	3,409	2,292	67.23%	21.54%	
	19560	3.70M\$	3,133	2,082	66.45%	23.88%	
	16559	6.60M\$	3,822	2,513	65.75%	24.63%	
	17559	4.16M\$	3,163	2,113	66.80%	24.91%	
Radisson Exotica	18559	2.20M\$	4,010	1,819	45.36%	25.20%	
	19559	2.78M\$	2,969	1,614	54.36%	24.77%	
	16558	2.05M\$	1,653	1,089	65.88%	25.54%	
Dadissas Canada	17558	3.37M\$	3,231	1,759	54.44%	30.04%	
Radisson Grands	18558	2.23M\$	2,836	1,538	54.23%	20.87%	

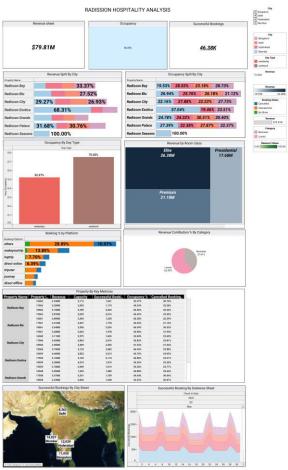












Mumbai has made highest no of succesful classes are the highest revenue contributers

Elite and premium room classes are the highest revenue contributers

others and make your trip contributed 42% of the total checkout bookings

All properties have average 25% cancellation rate and 50% occupancy rate

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Name	(Hotels)	Revenue	Capacity	Bookings	Occupancy %	%
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	17563	4.29M\$	3,249	2,163	66.57%	30.31%
	18563	2.02M\$	3,063	1,644	53.67%	26.85%
	19563	3.07M\$	3,440	1,853	53.87%	28.28%
Radisson Sea	17564	2.98M\$	3,023	1,354	44.79%	23.46%

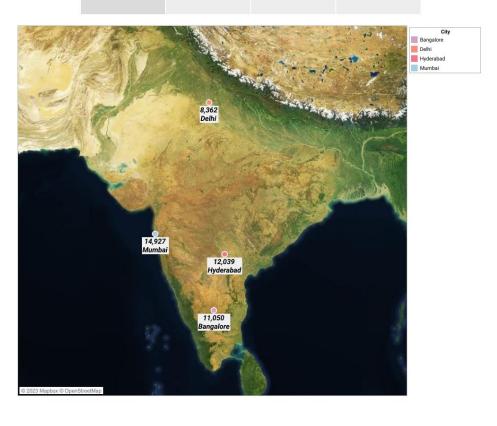


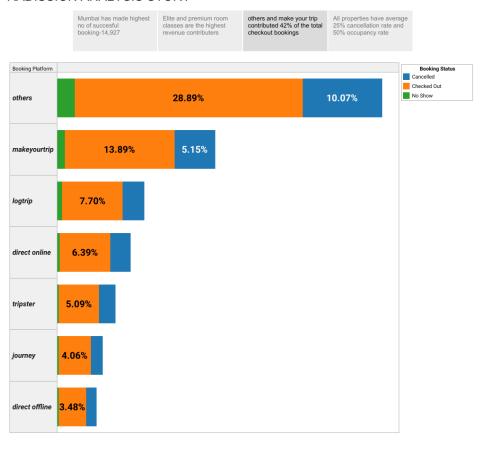
Mumbai has made highest no of succesful booking-14,927

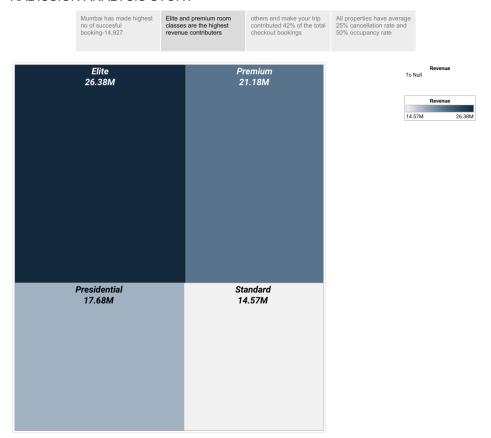
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others and make your trip contributed 42% of the total checkout bookings

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4.ADVANTAGES AND DISADVANTAGES

The business requirements for analyzing the performance and efficiency of Radisson Hotels include indentifying KPIs ,comparing performance across ifferent hotels,interactive dashboard and reports,making data driven decisions,comparing to industry average and createing forecasting models for future performance

The ultimate goals is to gain insights and improve performance through data visualization thechniques.

5.APPLICATION

Improve safety of costumers and can get costumer or guest satisfaction and hygiene food.

6.conclusion

By conducting an analysis the company can identify areas for improvement and take steps to enhance the customer experience, and increase customer satisfation and loyality. Improve its brand reputation, which can lead to increased customer loyality and repeat bussiness.

7.FUTURE SCOPE

The Hotel management is one of the highly job oriented field; it covers a wide range of survices including food service, accomodation and catering.

8.appendix

```
A.Source Code

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="utf-8">

<meta content="width=device-width, initial-scale=1.0"
name="viewport">
```

```
<title>Radisson Hotel</title>
 <meta content="" name="description">
 <meta content="" name="keywords">
 <!-- Favicons -->
 <link rel="stylesheet"</pre>
href="{{url for('static',filename='img/favicon.png')}}"
rel="icon">
 k rel="stylesheet"
href="{{url_for('static',filename='img/apple-touch-icon.png')}}"
rel="apple-touch-icon">
 <link rel="stylesheet"</pre>
href="{{url for('static',filename='vendor/animate.css/animate.
min.css')}}">
 <!-- Google Fonts -->
 k
href="https://fonts.googleapis.com/css?family=Open+Sans:300
,300i,400,400i,600,600i,700,700i|Playfair+Display:ital,wght@0,
400;0,500;0,600;0,700;1,400;1,500;1,600;1,700|Poppins:300,3
00i,400,400i,500,500i,600,600i,700,700i" rel="stylesheet">
```

```
<!-- Vendor CSS Files -->
 k rel="stylesheet"
href="{{url for('static',filename='vendor/animate.css/animate.
min.css')}}">
 k rel="stylesheet"
href="{{url for('static',filename='vendor/aos/aos.css')}}">
 <link rel="stylesheet"</pre>
href="{{url for('static',filename='vendor/bootstrap/css/bootstr
ap.min.css')}}">
 <link rel="stylesheet"</pre>
href="{{url for('static',filename='vendor/bootstrap-
icons/bootstrap-icons.css')}}">
 <link rel="stylesheet"</pre>
href="{{url_for('static',filename='vendor/boxicons/css/boxicons
.min.css')}}">
 <link rel="stylesheet"</pre>
href="{{url for('static',filename='vendor/glightbox/css/glightbo
x.min.css')}}">
 <link rel="stylesheet"</pre>
href="{{url_for('static',filename='vendor/swiper/swiper-
bundle.min.css')}}">
 <!-- Template Main CSS File -->
```

```
<link rel="stylesheet"</pre>
href="{{url_for('static',filename='css/style.css')}}">
 <!--
===
 * Template Name: Restaurantly - v3.9.1
 * Template URL: https://bootstrapmade.com/restaurantly-
restaurant-template/
 * Author: BootstrapMade.com
 * License: https://bootstrapmade.com/license/
==== -->
</head>
<body>
 <!-- ====== Top Bar ====== -->
 <div id="topbar" class="d-flex align-items-center fixed-top">
  <div class="container d-flex justify-content-center justify-
content-md-between">
   <div class="contact-info d-flex align-items-center">
```

```
<i class="bi bi-phone d-flex align-items-center"><span>+91
9589 55488 55</span></i>
    <i class="bi bi-clock d-flex align-items-center ms-4"><span>
Mon-Sat: 10:00AM - 11:00PM</span></i>
   </div>
  </div>
 </div>
 <!-- ===== Header ====== -->
 <header id="header" class="fixed-top d-flex align-items-</pre>
cente">
  <div class="container-fluid container-xl d-flex align-items-
center justify-content-lg-between">
   <h1 class="logo me-auto me-lg-0"><a href="{{
url_for('index') }}">Radisson Hotel</a></h1>
   <!-- Uncomment below if you prefer to use an image logo --
>
   <!-- <a href="index.html" class="logo me-auto me-lg-
0"><img src="assets/img/logo.png" alt="" class="img-
fluid"></a>-->
```

```
<nav id="navbar" class="navbar order-last order-lg-0">
    ul>
     <a class="nav-link scrollto active"</li>
href="#hero">Home</a>
     <a class="nav-link scrollto"
href="#about">About</a>
     <a class="nav-link scrollto"
href="#events">Events</a>
     <a class="nav-link scrollto" href="#chefs">Dashboard
& Story</a>
     <a class="nav-link scrollto"
href="#gallery">Gallery</a>
     <a class="nav-link scrollto"
href="#contact">Contact</a>
    <i class="bi bi-list mobile-nav-toggle"></i>
   </nav><!-- .navbar -->
  </div>
 </header><!-- End Header -->
```

```
<!-- ===== Hero Section ====== -->
 <section id="hero" class="d-flex align-items-center">
  <div class="container position-relative text-center text-lg-</pre>
start" data-aos="zoom-in" data-aos-delay="100">
   <div class="row">
    <div class="col-lg-8">
     <h1>Welcome to <span>Radisson Hotel</span></h1>
     <h2>Radisson Hotels is an international hotel chain
headquartered in the United States. A division of the Radisson
Hotel Group, it operates the brands Radisson Blu, Radisson
RED, Radisson Collection, Country Inn & Suites, and Park Inn by
Radisson, among others.</h2>
    </div>
    <div class="col-lg-4 d-flex align-items-center justify-
content-center position-relative" data-aos="zoom-in" data-aos-
delay="200">
     <a
href="https://www.youtube.com/watch?v=u6BOC7CDUTQ"
class="glightbox play-btn"></a>
    </div>
   </div>
```

```
</div>
 </section><!-- End Hero -->
 <main id="main">
  <!-- ===== About Section ====== -->
  <section id="about" class="about">
   <div class="container" data-aos="fade-up">
    <div class="row">
     <div class="col-lg-6 order-1 order-lg-2" data-aos="zoom-</pre>
in" data-aos-delay="100">
      <div class="about-img">
        <img src="static/img/about.jpg" alt="">
      </div>
     </div>
     <div class="col-lg-6 pt-4 pt-lg-0 order-2 order-lg-1</pre>
content">
      <h3>Radisson Hotel Analysis</h3>
      Radisson owns multiple five-star hotels across India.
```

They have been in the hospitality industry for the past 100

years. Due to strategic moves from other competitors and ineffective decision-making in management, Radisson are losing its market share and revenue in the luxury/business hotels category. As a strategic move, the managing director of Radisson wanted to incorporate Business and Data Intelligence in order to regain their market share and revenue.

```
>
    </div>
  </div>
 </div>
</section><!-- End About Section -->
<!-- ===== Events Section ====== -->
<section id="events" class="events">
 <div class="container" data-aos="fade-up">
  <div class="section-title">
   <h2>Events</h2>
```

```
Organize Your Events in our Radisson Hotel
    </div>
    <div class="events-slider swiper" data-aos="fade-up" data-
aos-delay="100">
     <div class="swiper-wrapper">
      <div class="swiper-slide">
       <div class="row event-item">
        <div class="col-lg-6">
         <img src="static/img/event-birthday.jpg" class="img-
fluid" alt="">
        </div>
        <div class="col-lg-6 pt-4 pt-lg-0 content">
         <h3>Birthday Parties</h3>
         <div class="price">
          <span>$189</span>
         </div>
```

```
</div>
       </div>
      </div><!-- End testimonial item -->
      <div class="swiper-slide">
       <div class="row event-item">
        <div class="col-lg-6">
         <img src="static/img/event-private.jpg" class="img-</pre>
fluid" alt="">
        </div>
        <div class="col-lg-6 pt-4 pt-lg-0 content">
         <h3>Private Parties</h3>
         <div class="price">
          <span>$290</span>
         </div>
         </div>
```

```
</div>
      </div><!-- End testimonial item -->
      <div class="swiper-slide">
       <div class="row event-item">
        <div class="col-lg-6">
          <img src="static/img/event-custom.jpg" class="img-</pre>
fluid" alt="">
        </div>
        <div class="col-lg-6 pt-4 pt-lg-0 content">
          <h3>Custom Parties</h3>
          <div class="price">
           <span>$99</span>
          </div>
        </div>
       </div>
      </div><!-- End testimonial item -->
     </div>
```

```
<div class="swiper-pagination"></div>
    </div>
   </div>
  </section><!-- End Events Section -->
  <!-- ===== Gallery Section ====== -->
  <section id="gallery" class="gallery">
   <div class="container" data-aos="fade-up">
    <div class="section-title">
     <h2>Gallery</h2>
     Some photos from Our Restaurant
    </div>
   </div>
   <div class="container-fluid" data-aos="fade-up" data-aos-
delay="100">
    <div class="row g-0">
     <div class="col-lg-3 col-md-4">
```

```
<div class="gallery-item">
        <a href="static/img/gallery/gallery-1.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-1.jpg" alt=""
class="img-fluid">
        </a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
        <a href="static/img/gallery/gallery-2.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-2.jpg" alt=""
class="img-fluid">
        </a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
```

```
<a href="static/img/gallery/gallery-3.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-3.jpg" alt=""
class="img-fluid">
        </a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
        <a href="static/img/gallery/gallery-4.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-4.jpg" alt=""
class="img-fluid">
       </a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
        <a href="static/img/gallery/gallery-5.jpg" class="gallery-
lightbox" data-gall="gallery-item">
```

```
<img src="static/img/gallery/gallery-5.jpg" alt=""
class="img-fluid">
        </a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
        <a href="static/img/gallery/gallery-6.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-6.jpg" alt=""
class="img-fluid">
        </a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
        <a href="static/img/gallery/gallery-7.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-7.jpg" alt=""
class="img-fluid">
```

```
</a>
      </div>
     </div>
     <div class="col-lg-3 col-md-4">
      <div class="gallery-item">
       <a href="static/img/gallery/gallery-8.jpg" class="gallery-
lightbox" data-gall="gallery-item">
         <img src="static/img/gallery/gallery-8.jpg" alt=""
class="img-fluid">
       </a>
      </div>
     </div>
    </div>
   </div>
  </section><!-- End Gallery Section -->
  <!-- ===== Chefs Section ====== -->
  <section id="chefs" class="chefs">
   <div class="container" data-aos="fade-up">
```

<div class="section-title">

<center>Analysis Dashboard</center> <div class='tableauPlaceholder' id='viz1682317530449'</pre> style='position: relative'><noscript></noscript><object class='tableauViz' style='display:none;'><param name='host url' value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param name='embed code version' value='3' /> <param name='site_root' value=" /><param name='name'</pre> value='hotel radisson analysis hyper 16823139975820/ Radissionhospitalityanalysis' /><param name='tabs' value='no' /><param name='toolbar' value='yes' /><param name='static image' value='https://public.tableau.com/static/i mages/ho/hotel_radisson_analysis_hyper_16823139 975820/Radissionhospitalityanalysis/1.png'/> <param name='animate_transition' value='yes' /><param</pre> name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param

```
name='display overlay' value='yes' /><param
name='display_count' value='yes' /><param name='language'
value='en-US' /></object></div>
                                       <script
type='text/javascript'>
                               var divElement =
document.getElementById('viz1682317530449');
                                                         var
vizElement = divElement.getElementsByTagName('object')[0];
if ( divElement.offsetWidth > 800 ) {
vizElement.style.width='1320px';vizElement.style.height='4096
px';} else if ( divElement.offsetWidth > 500 ) {
vizElement.style.width='1320px';vizElement.style.height='4096
px';} else {
vizElement.style.width='100%';vizElement.style.height='3927px'
;}
            var scriptElement =
document.createElement('script');
                                           scriptElement.src
= 'https://public.tableau.com/javascripts/api/viz v1.js';
vizElement.parentNode.insertBefore(scriptElement,
vizElement);
                  </script>
     <center>Analysis Story</center>
    </div>
    <div class="row">
```

```
<div class='tableauPlaceholder' id='viz1682317242373'</pre>
style='position: relative'><noscript><a href='#'><img
alt='RADISSION ANALYSIS STORY'
src='https://public.tableau.com/static/ima
ges/ho/hotel_radisson_analysis_hyper_16823139975
820/Story1/1 rss.png' style='border: none'
/></a></noscript><object class='tableauViz'
style='display:none;'><param name='host_url'
value='https%3A%2F%2Fpublic.tableau.com%2F' /> <param
name='embed code version' value='3' /> <param name='path'
value='views/hotel radisson analysis hyper 1682313997
5820/Story1?:language=en-
US&:embed=true&publish=yes' /> <param
name='toolbar' value='yes' /><param name='static image'
value='https://public.tableau.com/static/i
mages/ho/hotel radisson analysis hyper 16823139
975820/Story1/1.png' /> <param
name='animate_transition' value='yes' /><param
name='display static image' value='yes' /><param
name='display spinner' value='yes' /><param
name='display_overlay' value='yes' /><param
name='display count' value='yes' /><param name='language'
value='en-US' /><param name='filter' value='publish=yes'
/></object></div>
                       <script type='text/javascript'>
var divElement =
document.getElementById('viz1682317242373');
                                                     var
vizElement = divElement.getElementsByTagName('object')[0];
```

```
vizElement.style.width='1016px';vizElement.style.height='991p
x';
             var scriptElement =
document.createElement('script');
                                            scriptElement.src
= 'https://public.tableau.com/javascripts/api/viz_v1.js';
vizElement.parentNode.insertBefore(scriptElement,
vizElement);
                    </script>
    </div>
   </div>
  </section><!-- End Chefs Section -->
  <!-- ===== Contact Section ====== -->
  <section id="contact" class="contact">
   <div class="container" data-aos="fade-up">
    <div class="section-title">
     <h2>Contact</h2>
     Contact Us
    </div>
   </div>
   <div class="container" data-aos="fade-up">
```

```
<div class="row mt-5">
     <div class="col-lg-4">
      <div class="info">
       <div class="address">
        <i class="bi bi-geo-alt"></i>
        <h4>Location:</h4>
        Radisson Hotel Bhopal, Gulmohar Colony, Bhopal,
Madhya Pradesh 462039
       </div>
       <div class="open-hours">
        <i class="bi bi-clock"></i>
        <h4>Open Hours:</h4>
        >
         Monday-Saturday:<br>
         10:00 AM - 11:00 PM
        </div>
       <div class="email">
```

```
<i class="bi bi-envelope"></i>
       <h4>Email:</h4>
       info@radisson.com
      </div>
      <div class="phone">
       <i class="bi bi-phone"></i>
       <h4>Call:</h4>
       +91 9589 55488 55
      </div>
     </div>
    </div>
    <div class="col-lg-8 mt-5 mt-lg-0">
     <div class="mapouter"><div
class="gmap_canvas"><iframe class="gmap_iframe"
frameborder="0" scrolling="no" marginheight="0"
marginwidth="0"
src="https://maps.google.com/maps?width=600&height=
400&hl=en&q=radisson
```

```
bhopal&t=&z=14&ie=UTF8&iwloc=B&
output=embed"></iframe><a
href="https://mcpedls.com/">minecraft
download</a></div><style>.mapouter{position:relative;text-
align:right;width:600px;height:400px;}.gmap_canvas
{overflow:hidden;background:none!important;width:600px;hei
ght:400px;}.gmap iframe
{width:600px!important;height:400px!important;}</style></div
     </div>
    </div>
   </div>
  </section><!-- End Contact Section -->
 </main><!-- End #main -->
 <!-- ===== Footer ====== -->
 <footer id="footer">
  <div class="footer-top">
   <div class="container">
    <div class="row">
```

```
<div class="col-lg-3 col-md-6">
      <div class="footer-info">
       <h3>Radisson Hotel</h3>
       >
        Radisson Hotel Bhopal, Gulmohar Colony <br
        Bhopal, Madhya Pradesh 462039<br><br>
        <strong>Phone:</strong> +91 9589 55488 55<br>
        <strong>Email:</strong> info@radisson.com<br>
       <div class="social-links mt-3">
        <a href="#" class="twitter"><i class="bx bxl-
twitter"></i></a>
        <a href="#" class="facebook"><i class="bx bxl-
facebook"></i></a>
        <a href="#" class="instagram"><i class="bx bxl-
instagram"></i></a>
        <a href="#" class="google-plus"><i class="bx bxl-
skype"></i></a>
        <a href="#" class="linkedin"><i class="bx bxl-
linkedin"></i></a>
       </div>
      </div>
```

```
</div>
     <div class="col-lg-2 col-md-6 footer-links">
     <h4>Useful Links</h4>
     ul>
      <i class="bx bx-chevron-right"></i> <a
href="#">Home</a>
      <i class="bx bx-chevron-right"></i> <a
href="#">About us</a>
      <i class="bx bx-chevron-right"></i> <a
href="#">Services</a>
     </div>
    </div>
   </div>
  </div>
  </div>
```

```
<div class="container">
   <div class="copyright">
    © Copyright <strong><span>Radisson
Hotel</span></strong>. All Rights Reserved
   </div>
   <div class="credits">
    <!-- All the links in the footer should remain intact. -->
    <!-- You can delete the links only if you purchased the pro
version. -->
    <!-- Licensing information:
https://bootstrapmade.com/license/ -->
    <!-- Purchase the pro version with working PHP/AJAX
contact form: https://bootstrapmade.com/restaurantly-
restaurant-template/ -->
    Designed by <a
href="https://bootstrapmade.com/">SmartBridge</a>
   </div>
  </div>
 </footer><!-- End Footer -->
 <div id="preloader"></div>
```

```
<a href="#" class="back-to-top d-flex align-items-center"
justify-content-center"><i class="bi bi-arrow-up-
short"></i></a>
 <!-- Vendor JS Files -->
 <script src="{{ url_for('static', filename='vendor/aos/aos.js')}</pre>
}}"></script>
 <script src="{{ url for('static',</pre>
filename='vendor/bootstrap/js/bootstrap.bundle.min.js')
}}"></script>
 <script src="{{ url for('static',</pre>
filename='vendor/glightbox/js/glightbox.min.js') }}"></script>
 <script src="{{ url for('static', filename='vendor/isotope-</pre>
layout/isotope.pkgd.min.js') }}"></script>
 <script src="{{ url for('static',</pre>
filename='vendor/swiper/swiper-bundle.min.js') }}"></script>
 <script src="{{ url for('static', filename='vendor/php-email-</pre>
form/validate.js') }}"></script>
```

```
<script src="{{ url_for('static', filename='js/main.js')
}}"></script>
</body>
</html>
```