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| **Power BI** Project Details | | |
| **Index** | **Heading** | **Description** |
| 1 | **Overview:** | Employee Details dataset contains information such as employee ID, name, position, salary, and attendance. This information can be used to gain insights into the company's workforce, their performance, and overall productivity. |
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| 2 | **Skill Pre-requisite:** |  |
|  | **1** | Solid understanding of data visualization and analysis concepts |
|  | **2** | Experience with data modeling and ETL processes |
|  | **3** | Proficiency in Power BI tools such as Power Query, Power Pivot, and Power View |
|  | **4** | Ability to collaborate with stakeholders |
|  |  | To become a successful Power BI developer, it is essential to have a strong foundation in data analysis and visualization concepts, as well as experience with data modeling and ETL processes. In addition, proficiency in Power BI tools such as Power Query, Power Pivot, and Power View is crucial, as is proficiency in programming languages. Ability to collaborate effectively with stakeholders are also key requirements. |
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| 3 | **System Pre-requisite:** |  |
|  | **1** | Operating System: Windows 10, Windows 8.1, Windows 8, or Windows 7 Service Pack 1 (32-bit and 64-bit) |
|  | **2** | Processor: 1 GHz or faster x86 or x64-bit processor |
|  | **3** | RAM: 1 GB (32-bit) or 2 GB (64-bit) RAM |
|  | **4** | Hard Disk Space: 1 GB available disk space |
|  | **5** | Display: 1024 x 768 resolution |
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| 7 | **Tasks: (Power BI)** |  |
|  | **A** | **Installation** |
|  |  | Downloading Power BI Desktop. |
|  | **B** | **Data Cleaning** |
|  |  | Power BI's Power Query can be used for data cleaning, which involves transforming, filtering, and manipulating data to prepare it for analysis. |
|  | **C** | **Data view** |
|  |  | Display all geographical datasets in Power BI along with their corresponding data categories, such as city, country, state, and region. |
|  | **E** | **Visual Insights** |
|  |  | Power BI needs DAX functions for visual insights, which manipulate and aggregate data to reveal hidden patterns. Mastering DAX is key to creating compelling visualizations. |
|  | **F** | **Published Report** |
|  |  | Power BI reports can be published and shared with others, making it easy to collaborate and work with others on data analysis projects. |
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| 8 | **Objectives** |  |
|  | **1** | To Analyze employee attendance patterns. |
|  | **2** | Identify employee qualifications and skills-Display education qualifications and skills of each employee. |
|  | **3** | Determine the count of employees by department and gender-Use a bar chart to show the count of employees in each department, split by gender. |
|  | **4** | Understand employee experience and salary. |
|  | **5** | Investigate employee age and nationality. |
|  | **6** | Monitor employee performance by position- Use a table to display employee details such as position, name, and sum of salary. |
|  | **7** | Identify employee emergency contacts. |
|  | **8** | Analyze employee turnover rate-Create a line chart to display the count of employees who left each year. |
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| 9 | **Project Summary** | Employee Details project provides insights on employee count, salary, attendance, and department distribution using various visuals in Power BI. |

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|  | **Page Alignment** |  |  |
| **1** | Page Size |  | 16.9 |
|  |  |  |  |
| **2** | Page View |  | Fit to page |
|  |  |  |  |
| **3** | Font |  | Segoe UI Light |
|  |  |  |  |
| **4** | Title Font Size |  | 16 |
|  |  |  |  |
| **5** | Page Background |  | #C6C7CD-Color Code |
|  |  |  |  |
| **6** | Color Code Used |  |  |
|  |  |  | #515874 - Title Background #FFFFFF – Text Color  # FFFFFF -Visual Background |
|  |  |  |  |
| **7** | Visuals Used |  |  |
|  |  |  | Cards |
|  |  |  | Slicer |
|  |  |  | Column\Bar Chart |
|  |  |  | Line Chart |
|  |  |  | Scatter Chart |
|  |  |  | Donut Chart |
|  |  |  | Pie Chart |
|  |  |  | Table |