

Black Women Data 2022 Power Bl Workshop

Case: You are a consultant working with a human capital division that provides people analytics services to Fortune 500 organizations. The organization has asked you to build a dashboard around their team and organizational performance and employee sentiment. This case is inspired by this <u>Kaggle challenge</u>.

Data: Introduction to the HR Dataset - Version 14 - Last Updated April, 2021. This HR Dataset is a synthetic data set created specifically to use for HR analytics cases and is updated every year or so, by the owners. Updates include additional columns, and to make slight changes to the underlying data.

Inspirational Questions: Here are some open-ended questions that you can explore and try to address through creating visualizations, or R or Python analyses.

- Is there any relationship between who a person works for and their performance score?
- What is the overall diversity profile of the organization?
- What are our best recruiting sources if we want to ensure a diverse organization?
- Can we predict who is going to terminate and who isn't? What level of accuracy can we achieve on this?
- Are there areas of the company where pay is not equitable?
- Is there any relationship between who a person works for and their performance score?
- What is the overall diversity profile of the organization?
- What are our best recruiting sources if we want to ensure a diverse organization?
- Can we predict who is going to terminate and who isn't? What level of accuracy can we achieve on this?
- Are there areas of the company where pay is not equitable?
- Is there a relationship between age and performance
- Does working on special projects affects performance

Data Dictionary:



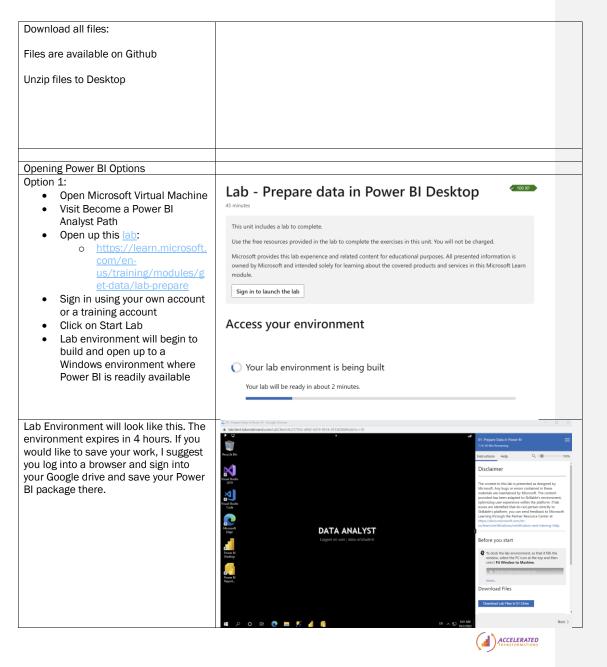


Feature	Description	DataType
Employee Name	Employee's full name	Text
EmpID	Employee ID is unique to each employee	Text
MarriedID	Is the person married (1 or 0 for yes or no)	Binary
MaritalStatusID	Marital status code that matches the text field MaritalDesc	Integer
EmpStatusID	Employment status code that matches text field EmploymentStatus	Integer
DeptID	Department ID code that matches the department the employee works in	Integer
PerfScoreID	Performance Score code that matches the employee's most recent performance score	Integer
FromDiversityJobFairID	Was the employee sourced from the Diversity job fair? 1 or 0 for yes or no	Binary
Salary	The person's yearly salary. \$ U.S. Dollars	Float
Termd	Has this employee been terminated - 1 or 0	Binary
PositionID	An integer indicating the person's position	Integer
Position	The text name/title of the position the person has	Text
State	The state that the person lives in	Text
Zip	The zip code for the employee	Text
DOB	Date of Birth for the employee	Date
Sex	Sex - M or F	Text
MaritalDesc	The marital status of the person (divorced, single, widowed, separated, etc)	Text
CitizenDesc	Label for whether the person is a Citizen or Eligible NonCitizen	Text
HispanicLatino	Yes or No field for whether the employee is Hispanic/Latino	Text
RaceDesc	Description/text of the race the person identifies with	Text
DateofHire	Date the person was hired	Date
DateofTermination	Date the person was terminated, only populated if, in fact, Termd = 1	Date
TermReason	A text reason / description for why the person was terminated	Text
EmploymentStatus	A description/category of the person's employment status. Anyone currently working full time = Active	Text
Department	Name of the department that the person works in	Text
ManagerName	The name of the person's immediate manager	Text
ManagerID	A unique identifier for each manager.	Integer
RecruitmentSource	The name of the recruitment source where the employee was recruited from	Text
PerformanceScore	Performance Score text/category (Fully Meets, Partially Meets, PIP, Exceeds)	Text
EngagementSurvey	Results from the last engagement survey, managed by our external partner	Float
EmpSatisfaction	A basic satisfaction score between 1 and 5, as reported on a recent employee satisfaction survey	Integer
SpecialProjectsCount	The number of special projects that the employee worked on during the last 6 months	Integer
LastPerformanceReviewl ate	The most recent date of the person's last performance review.	Date
DaysLateLast30	The number of times that the employee was late to work during the last 30 days	Integer
Absences	The number of times the employee was absent from work.	Integer





Power BI Steps:





Option 2:

- Download Power BI
- https://www.microsoft.com/enus/download/details.aspx?id= 58494



Microsoft Power BI Desktop

With the Power BI Desktop you can visually explore your data through a free-form drag-and-drop canvas, a broad range of modern data visualizations, and an easy-to-use report authoring experience.

Download >

Advanced download options >

If you do not have a Microsoft account and want to use the lab without creating one, here are training accounts you can access.

https://docs.google.com/spreadsheets/d/15ckDqvglrplvwikV-NkpA5QJ5Eb876Aa0HUK7CV-jEE/edit?usp=sharing

Open Power BI and Get Data

- To simplify this process we will use one data source: HR Dataset v14
- Select Text/CSV
- In the File Dialog, navigate to HRDataset_v14
 - You should only use the Excel Workbook option should you fall behind and need the tables we will build in the lab

Power BI Desktop







Recent sources

Name

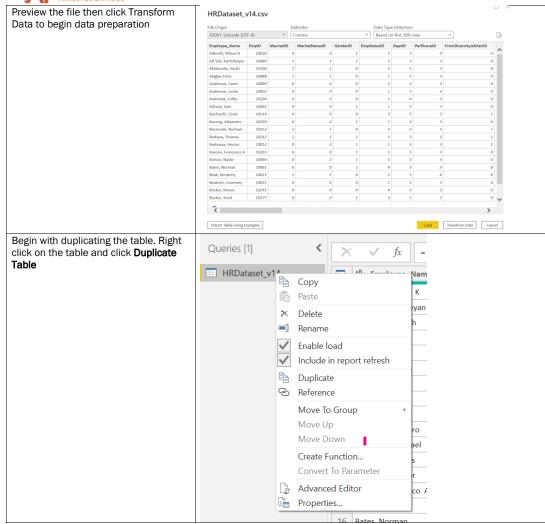


HRData_Employees



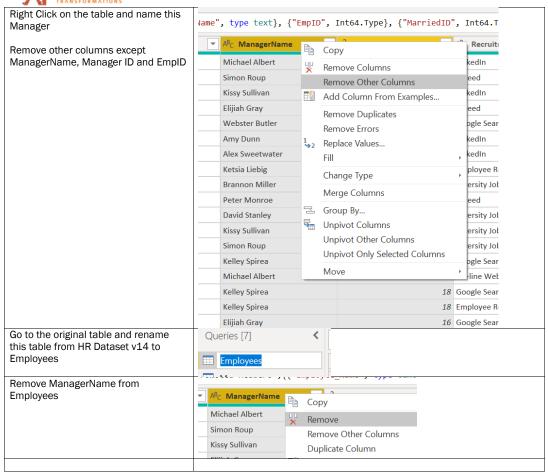






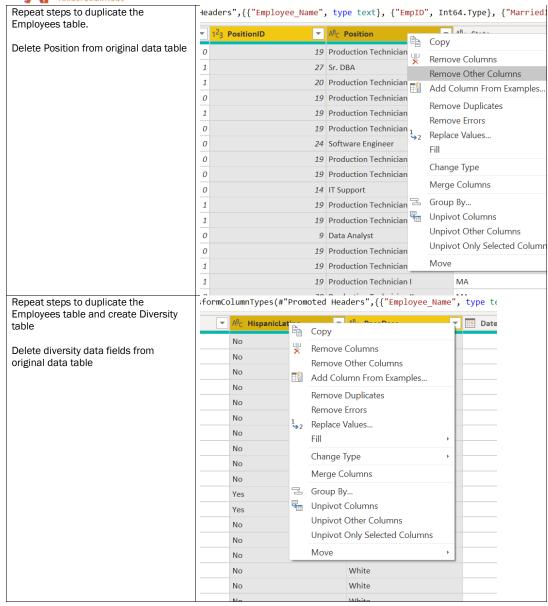






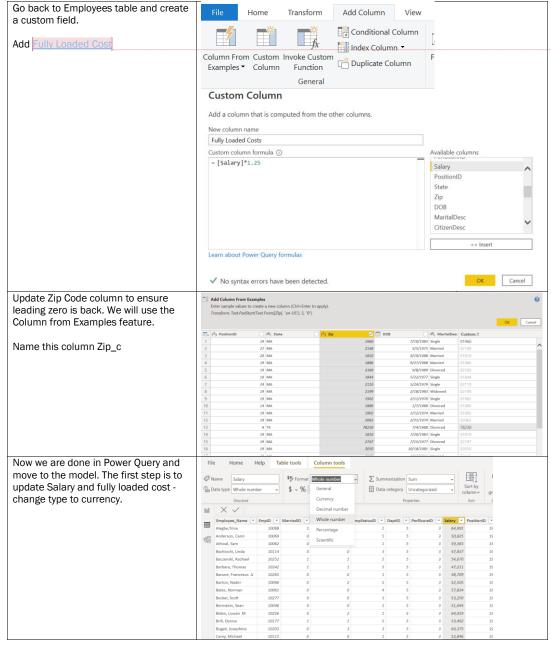














Commented [TA1]: When you think about adding a new employee to your payroll, determine what the actual financial cost of doing so means to your business. This includes the dollars and cents over and above the basic wage or salary you agree to pay. There's a rule of thumb that the cost is typically 1.25 to 1.4 times the salary, depending on certain variables. So, if you pay someone a salary of \$35,000, your actual costs likely will range from \$43,750 to \$49,000. Some added employment costs are mandatory, while others are a little harder to pin down. Fortunately, there may be tax savings to offset some of the costs.



