HR Survey Analysis Welcome



# Welcome

Greetings, I'm Amanda, a proud Wisconsinite. I'm a born and raised city girl now living the country lifestyle. My travels across the United States fostered an appreciation for nature and the world around us. I'm passionate about expanding my skill set and applying it to real-world challenges. Through a self-paced learning journey with Maven Analytics, I've honed my Excel skills in this **HR**Survey Analysis. For a closer look at my educational background and professional experience, please visit my LinkedIn page or review my resume. You can also reach out via email. Thriving in cross-functional teams allows me to share perspectives, learn from others, and deliver results. My mission is to make data a driving force for transformation in today's business landscape. Let's connect and embark on a journey where data isn't just information; it's a catalyst for positive change. Remember to cherish each day whenever you can.

LinkedIn
Resume
Email
Final Workbook

HR Survey Analysis Table of Contents

# **Table of Contents**

Info on Author

**Project Brief** 

**RAW DATA** 

**METADATA** 

**Data Dictionary** 

**Data Documentation** 

HR Survey Respones - Cleaned

**Department Pivot** 

**Question Pivot** 

**Chart Source View 1** 

**Chart Source View 2** 

**Insights & Recommendations** 

HR Survey Analysis Project Brief

# HR SURVEY ANALYSIS THE SITUATION

I was hired as a **Human Resources (HR) Associate** for the Seattle Department of Public Works.

The city surveyed ~ 1,500 public works employees to measure job satisfaction and identify opportunites to keep staff motivated and engaged.

### THE ASSIGNMENT

I was asked to analyze the survey response data and prepare a visual summary for the HR leadership team.

### THE OBJECTIVES

- 1. Explore and profile the data to correct any quality issues.
  - 2. Prepare and reformat the data for visualization.
- 3. Visualize the data and identify key insights and recommendations.

HR Survey Analysis METADATA

# **ORIGINAL EMPLOYEE RESPONSE DATA**

 $^{\sim}$  1,500 responses from city employees in Washington State

File Type: Excel

Data Structure: Single Table

# of records: 14725

# of fields: 10

# **AFTER CLEANING & FORMATTING**

# of records: 14575

HR Survey Analysis Data Dictionary

# Field Description

Response ID Unique, sequential ID representing a response to a survey question

Status Identifies whether a response was complete or incomplete

Department Survey respondent's job department (Human Resources, Public Works, etc.)

Director Binary (0/1) field indicating if the respondent is in a Director role Manager Binary (0/1) field indicating if the respondent is in a Manager role Supervisor Binary (0/1) field indicating if the respondent is in a Supervisor role

Staff Binary (0/1) field indicating if the respondent is in a Staff role

Question Full survey question text

Response Survey response value (0, 1, 2, 3, 4)

Response Text Survey response text (Not Applicable, Strongly Disagree, Disagree, Agree, Strongly Agree)

HR Survey Analysis Data Documentation

### Objective 1: Explore and profile the data to correct any quality issues.

I first took a look at the raw data as a whole.

Row count 14725

Calculations

Added a column (A) and some rows above data to make room MIN, MAX, COUNT, & BLANKS in the numerical data columns

Added filters to my header row.

Select Row 1, use the shortcut ALT H S F

Using the filters, I noticed:

Question (I): 2 sets of questions 7 &~10

Response (J) & Response Text (K): have blanks

Remove blanks

Applied filter to Column I to show only blanks

Results of 135 blanks which were also blank in Response Text Selecting the first row, use the shortcut Ctrl Shift down arrow Deleted all rows with blanks

Row count is now 14590

Remove duplicates

Selecting all data, Data Tab, click 'Remove Duplicates'

15 duplicates were found and deleted

Row count 14575

**Checking Department** 

Selecting all data, Insert Tab, Pivot Table

in new sheet Department Pivot

Formatting

Department to Rows

Department to Values (Count)

Nothing stands out as an error

Counts are correct

**Checking Question** 

Selecting all data, Insert Tab, Pivot Table

in new sheet Question Pivot

Formatting

Question to Rows

Question to Values (Count)

Question 7: "&","and" are use

Question 10: no visual error, click in and find trailing space

Back in HR Survery Responses - Cleaned

Question 7

Selecting Question column, Ctrl F

Find & Replace "&" with "and"

Replaced 501

Refresh Question Pivot and only 1 question 7

Question 10

In Column L (helper column)

=TRIM(19)

copied down

Select new column data, Ctrl C

HR Survey Analysis Data Documentation

Paste values into Question column (ALT H V V)

delete helper column

Refresh Question Pivot and only 1 question 10

### Objective 2: Prepare and reformat the data for visualization

Adding new sheet 'Chart Source View 1'

A2 =UNIQUE('HR Survey Reponses - Cleaned'!19:114583)

Cleaned and distinct 10 questions

Need # of each response 1-4

B2 =COUNTIFS('HR Survey Reponses - Cleaned'!\$|\$8:\$|\$14583,'Chart Source View 1'!\$A3,'HR Survey Reponses - Cleaned'!\$|\$8:\$|\$14583,'Chart Source View 1'!\$\$2)

with reference types set, can drag down and over to fill the the rest of B2:E11

Spot check to make sure all formulas copied correctly

### Average responses

F2 =AVERAGEIFS('HR Survey Reponses - Cleaned'!\$J\$8:\$J\$14583,'HR Survey Reponses - Cleaned'!\$J\$8:\$J\$14583,'Chart Source View 1'!\$A3,'HR Survey Reponses - Cleaned'!\$J\$8:\$J\$14583,"<>0")

this will exclude "0" responses as they mean 'Not Applicable'

copied down & double checked

Now to get the % of the responses

After AVG add new headers, (G-J) 1-4

G2 =B3/SUM(\$B3:\$E3)

copied down, across & double checked

Copy whole dataset, paste as values below table

could paste in original placement, I wanted to keep the formulas

ALT H V V, shortcut to paste as values

### Formatting

added a row above each table, merging cells for names 'Formulas' & 'Values'

Using 'Values' table here on out

select headers, ALT A T will add filters

Sort DESC by AVG response

centered data in cells, for better readability

### Noticed top response

1. I know what is expected of me at work

AVG response is 3.49

### Objective 3: Visualize the data and identify key insights and recommendations

Create a 2-D 100% stacked bar chart

Select A17:A26 (Questions in 'Values' table)

CTRL Select % vaules G17:J26

Insert 100% stacked bar chart

### Formatting

Y-axis 'check' categories in reverse order

this keeps the questions in sorted order

Update legend for response meanings

Update colors to be colorblind friendly

1 = solid fill, dark orange, 'Strongly Disagree'

2 = solid fill, light orange, 'Disagree'

3 = solid fill, light blue, 'Agree'

4 = solid fill, dark blue, 'Strongly Agree'

Add data labels, centered in bars

Format white text, bold and increase size

delete X-axis, gridlines

HR Survey Analysis Data Documentation

Add title

Format chart area with no fill and no border

Edit gap width to 70%

Removed gridlines from worksheet for blank canvas

Repeated with 2nd bar chart to show acutal counts

formatted same

Copy 'Chart Source View 1' sheet and rename 'Chart Source View 2'

Delete 'Formulas' table

Left with 'Values', deleted top header, not needed anymore

Keep % chart, delete count chart

Modify bar chart to skew the (+) reponses to the right, and (-) responses to the left Modify table

Add 'left' column after AVG, and 'right' at end

left (G2) = 1-(H2+I2)

copy down and format as whole %

right (L2) = 1-(J2+K2)

copy down and format as whole %

### Select chart

Edit series data

include new colums G & L

### Reformat Bar Chart

leftmost & rightmost: no fill, bo, data labels or legend

this makes them invisible

Adjust colors and series names to match original

1 = solid fill, dark orange, 'Strongly Disagree'

2 = solid fill, light orange, 'Disagree'

3 = solid fill, light blue, 'Agree'

4 = solid fill, dark blue, 'Strongly Agree'

Adjust data labels, white and bold

This chart is easier on the eyes, easily see (-) & (+) responses

Check out my Insights & Recommendations

HR Survey Analysis Department Pivot

Department	Count of Department
Assessor-Treasurer's Office	426
Assigned Council	180
Clerk of Superior Court	358
Communications Office	196
Council's Office	267
District Court	418
Economic Development	69
Emergency Management	188
Exec Office & Directors	263
Facilities Management	472
Family Justice Center	39
Finance and Performance Management	1088
Human Resources	269
Human Services	959
Juvenile Court	742
Medical Examiner	109
Parks and Recreation	550
Planning and Public Works	4663
Prosecuting Attorney's Office	1172
Sheriff's Department	1800
Superior Court	347
Grand Total	14575

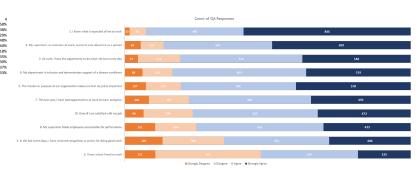
HR Survey Analysis Question Pivot

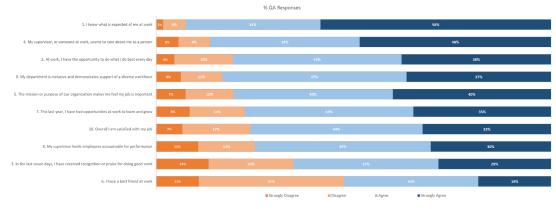
Question	Count of Question
1. I know what is expected of me at work	1453
10. Overall I am satisfied with my job	1462
2. At work, I have the opportunity to do what I do best every day	1461
3. In the last seven days, I have received recognition or praise for doing good work	1456
4. My supervisor, or someone at work, seems to care about me as a person	1457
5. The mission or purpose of our organization makes me feel my job is important	1459
6. I have a best friend at work	1458
7. This last year, I have had opportunities at work to learn and grow	1452
8. My supervisor holds employees accountable for performance	1459
9. My department is inclusive and demonstrates support of a diverse workforce	1458
Grand Total	14575

HR Survey Analysis Chart Source View 1

Questions	
<ol> <li>I know what</li> </ol>	is expected of me at work
2. At work, I ha	ave the opportunity to do what I do best every day
	even days, I have received recognition or praise for doing good work
	or, or someone at work, seems to care about me as a person
	or purpose of our organization makes me feel my job is important
	t friend at work
	r, I have had opportunities at work to learn and grow
	or holds employees accountable for performance
	ent is inclusive and demonstrates support of a diverse workforce
<ol><li>Overall I ar</li></ol>	n satisfied with my job
	Taking with my job
Ouertions	a decined with my jud
Questions	
1. I know what	b expected of me at work
I know what     My supervis	: is expected of me at work or, or someone at work, seems to care about me as a person
I know what     My supervis     At work, I ha	: is expected of me at work or, or someone at work, seems to care about me as a person we the opportunity to do what I do best every day
I know what     My supervis     At work, I hat     My departm	: is expected of me at work or, or someone at work, seems to care about me as a person
I know what     My supervis     At work, I hat     My departm     The mission	is expected of me at work or, or someone at work, seems to care about me as a person we the opportunity to do what I do best every day met is inclusive and demonstrates support of a diverse workforce
I know what     My supervis     At work, I hat     My departm     The mission     This last year	is expected of me at work not or convenience at work, seems to care about me as a person were the opportunity to do what I do best every day sent is inclusive and demonstrates support of a diverse workforce or purpose of our organization makes me feel my job is important
1. I know what 4. My supervis 2. At work, I ha 9. My departm 5. The mission 7. This last yea 10. Overall I ar	it is expected of me at work or, or someone at work, seems to care about me as a person we the opportunity to do what it do best every day ents includive and demonstrates support of adverse workforce or purpose of our organization makes me feel my job is important. I, then hed opportunities at work to learn and grow
1. I know what 4. My supervis 2. At work, I hi 9. My departm 5. The mission 7. This last yea 10. Overall I ar 8. My supervis	is expected of me at work.  or, or someone at work, seems to core about me as a person  or, or someone at work, seems to leak the seems of the seems

	3	2	1	ıvg	4 a	3	2	1
	34%	6%	2%	3.49	846	495	82	25
3	43%	15%	5%	3.14	548	618	214	67
	37%	22%	13%	2.80	406	522	306	189
	38%	8%	6%	3.29	699	547	115	81
	40%	12%	7%	3.13	578	582	175	107
	34%	37%	11%	2.60	235	433	469	137
3	43%	14%	8%	3.04	493	604	197	120
3	45%	14%	11%	2.95	433	632	204	151
3	47%	11%	6%	3.14	519	663	149	88
3	44%	17%	7%	3.02	472	635	249	96
								Values
4	3	2	1	avg	4	3	2	1
58%	34%	6%	2%	3.49	846	495	82	1 25
58% 48%	34% 38%	6% 8%	2% 6%	3.49 3.29	846 699	495 547	82 115	1 25 81
58% 48% 38%	34% 38% 43%	6% 8% 15%	2% 6% 5%	3.49 3.29 3.14	846 699 548	495 547 618	82 115 214	1 25 81 67
58% 48% 38% 37%	34% 38% 43% 47%	6% 8% 15% 11%	2% 6% 5% 6%	3.49 3.29 3.14 3.14	846 699 548 519	495 547 618 663	82 115 214 149	1 25 81 67 88
58% 48% 38% 37% 40%	34% 38% 43% 47% 40%	6% 8% 15% 11% 12%	2% 6% 5% 6% 7%	3.49 3.29 3.14 3.14 3.13	846 699 548 519 578	495 547 618 663 582	82 115 214 149 175	1 25 81 67 88 107
58% 48% 38% 37% 40% 35%	34% 38% 43% 47% 40% 43%	6% 8% 15% 11% 12% 14%	2% 6% 5% 6% 7% 8%	3.49 3.29 3.14 3.14 3.13 3.04	846 699 548 519 578 493	495 547 618 663 582 604	82 115 214 149 175 197	1 25 81 67 88 107 120
58% 48% 38% 37% 40% 35% 33%	34% 38% 43% 47% 40% 43% 44%	6% 8% 15% 11% 12% 14% 17%	2% 6% 5% 6% 7% 8% 7%	3.49 3.29 3.14 3.14 3.13 3.04 3.02	846 699 548 519 578 493 472	495 547 618 663 582 604 635	82 115 214 149 175 197 249	1 25 81 67 88 107 120 96
58% 48% 38% 37% 40% 35% 33% 30%	34% 38% 43% 47% 40% 43% 44%	6% 8% 15% 11% 12% 14% 17%	2% 6% 5% 6% 7% 8% 7% 11%	3.49 3.29 3.14 3.14 3.13 3.04 3.02 2.95	846 699 548 519 578 493 472 433	495 547 618 663 582 604 635 632	82 115 214 149 175 197 249 204	1 25 81 67 88 107 120 96 151
58% 48% 38% 37% 40% 35% 33%	34% 38% 43% 47% 40% 43% 44%	6% 8% 15% 11% 12% 14% 17%	2% 6% 5% 6% 7% 8% 7%	3.49 3.29 3.14 3.14 3.13 3.04 3.02	846 699 548 519 578 493 472	495 547 618 663 582 604 635	82 115 214 149 175 197 249	1 25 81 67 88 107 120 96





HR Survey Analysis Chart Source View 2

Questions	1	2	3	4	avg	left	1	2	3	4	right
1. I know what is expected of me at work	25	82	495	846	3.49	93%	2%	6%	34%	58%	7%
4. My supervisor, or someone at work, seems to care about me as a person	81	115	547	699	3.29	86%	6%	8%	38%	48%	14%
2. At work, I have the opportunity to do what I do best every day	67	214	618	548	3.14	81%	5%	15%	43%	38%	19%
9. My department is inclusive and demonstrates support of a diverse workforce	88	149	663	519	3.14	83%	6%	11%	47%	37%	17%
5. The mission or purpose of our organization makes me feel my job is important	107	175	582	578	3.13	80%	7%	12%	40%	40%	20%
7. This last year, I have had opportunities at work to learn and grow	120	197	604	493	3.04	78%	8%	14%	43%	35%	22%
10. Overall I am satisfied with my job	96	249	635	472	3.02	76%	7%	17%	44%	33%	24%
8. My supervisor holds employees accountable for performance	151	204	632	433	2.95	75%	11%	14%	45%	30%	25%
3. In the last seven days, I have received recognition or praise for doing good work	189	306	522	406	2.80	65%	13%	22%	37%	29%	35%
6. I have a best friend at work	137	469	433	235	2.60	52%	11%	37%	34%	18%	48%

1. I know what is expected of me at work

4. My supervisor, or someone at work, seems to care about me as a person

2. At work, I have the opportunity to do what I do best every day

9. My department is inclusive and demonstrates support of a diverse workforce

5. The mission or purpose of our organization makes me feel my job is important

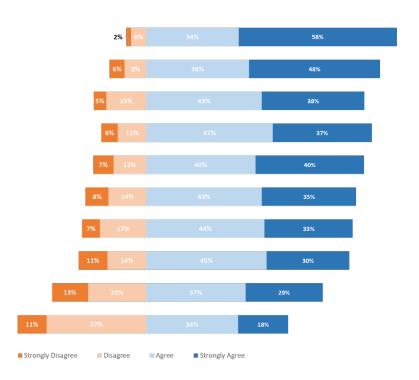
7. This last year, I have had opportunities at work to learn and grow

10. Overall I am satisfied with my job

8. My supervisor holds employees accountable for performance

3. In the last seven days, I have received recognition or praise for doing good work

6. I have a best friend at work



HR Survey Analysis Insights & Recommendations

### Key Insights from HR Survey Analysis

(Public Works Employees)

### **Positive Aspects**

- \* Clear Expectations: 58% of employees express clarity in their work expectations, indicating well-defined roles.
- \* Diversity and Inclusion: 47% of employees believe the department demonstrates a decent level of inclusivity.
- \* Meaningful Work: 40% of employees find purpose in their roles due to the organization's mission.

### **Areas Needing Improvement**

- \* Limited Growth Opportunities: 43% of employees feel hindered by insufficient opportunities for learning and growth
- \* Lack of Recognition: Only 29% of respondents received recognition for their work in the past week, indicating a need for appreciation.
- \* Accountability Concerns: 30% of employees believe supervisors don't hold colleagues accountable for performance.
- \* Overall Job Satisfaction: While 44% are satisfied with their jobs, 33% express dissatisfaction, necessitating improvement.

### **Recmmended Actions**

- \* Invest in Growth Opportunities: Implement training programs, mentorship initiatives, and job rotations to address the demand for learning and development.
- \* Foster a Culture of Recognition: Encourage supervisors to regularly acknowledge and appreciate employees' contributions formally and informally.
- \* Enhance Accountability Measures: Clearly define performance expectations and implement fair consequences for meeting or not meeting those expectations.
- \* Explore Dissatisfaction Causes: Conduct further research or focus groups to identify the root causes of dissatisfaction and tailor solutions accordingly.
- \* Promote Collaboration: Organize team-building activities and social events to create a more connected and positive work environment.

### **Additional Considerations**

- \* The survey provides a timely snapshot, and regular pulse surveys can track progress and spot emerging trends.
- \* The survey's comments section offers valuable qualitative data, shedding light on employee concerns and suggestions.
- \* The city, by addressing improvement areas and leveraging its strengths, has the potential to create a more engaging and fulfilling workplace for public works employees, leading to improved productivity, morale, and retention
- 1. I know what is expected of me at work
- 4. My supervisor, or someone at work, seems to care about me as a person
  - 2. At work, I have the opportunity to do what I do best every day
- 9. My department is inclusive and demonstrates support of a diverse workforce
- 5. The mission or purpose of our organization makes me feel my job is important
  - 7. This last year, I have had opportunities at work to learn and grow
    - 10. Overall I am satisfied with my job
    - 8. My supervisor holds employees accountable for performance
- 3. In the last seven days, I have received recognition or praise for doing good work
  - 6. I have a best friend at work

