**CineCube Report**This is a report on the Avg of hours\_per\_week when occupation is fixed to 'Other' and marital is fixed to 'Partner-absent'. We will start by answering the original query and we complement the result with contextualization and detailed analyses.

**Answer to the original question**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Farming-fishing | Other-service | Protective-serv |
|  | Divorced | 44.06 | 37.51 | 44.33 |
|  | Married-spouse-absent | 40.17 | 36.25 | 40.00 |
|  | Separated | 43.94 | 37.02 | 43.31 |
|  | Widowed | 39.43 | 30.04 | 35.22 |

Here, you can see the answer of the original query. You have specified occupation to be equal to 'Other', and marital to be equal to 'Partner-absent'. We report on Avg of hours\_per\_week grouped by occupation at level 0, and marital at level 0 .  
You can observe the results in this table. We highlight the largest values with red and the lowest values with blue color.   
Column Farming-fishing has 2 of the 3 highest values.  
Column Other-service has 2 of the 3 lowest values.  
Row Divorced has 2 of the 3 highest values.  
Row Separated has 1 of the 3 highest values.  
Row Married-spouse-absent has 1 of the 3 lowest values.  
Row Widowed has 2 of the 3 lowest values.

**Act I: Putting results in context**In this series of slides we put the original result in context, by comparing the behavior of its defining values with the behavior of values that are similar to them.

**Assessing the behavior of occupation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Summary for occupation | Blue-collar | **Other** | white-collar |
|  | Divorced | 42.01 | **39.02** | 41.94 |
|  | Married-spouse-absent | 41.98 | **37.60** | 39.49 |
|  | Separated | 40.07 | **38.05** | 40.32 |
|  | Widowed | 35.73 | **31.34** | 35.30 |

In this graphic, we put the original request in context by comparing the value 'Other' for occupation at level 1 with its sibling values. We highlight the reference cells with bold, the highest values with red and the lowest values with blue color. We calculate the Avg of hours\_per\_week while fixing occupation at level 2 to be equal to ''ALL'', and marital at level 1 to be equal to ''Partner-absent''.  
Compared to its sibling we observe the following:  
In 4 out of 4 cases Other has lower value than Blue-collar.  
In 4 out of 4 cases Other has lower value than white-collar.

**Assessing the behavior of marital**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Summary for marital | Armed-Forces | Farming-fishing | Other-service | Protective-serv |
|  | **Partner-absent** | **-** | **42.50** | **35.92** | **43.23** |
|  | Partner-present | 42.67 | 50.10 | 38.81 | 43.88 |

In this graphic, we put the original request in context by comparing the value 'Partner-absent' for marital at level 1 with its sibling values. We highlight the reference cells with bold, the highest value with red and the lowest value with blue color. We calculate the Avg of hours\_per\_week while fixing occupation at level 1 to be equal to ''Other'', and marital at level 2 to be equal to ''Married''.  
Compared to its sibling we observe that in 3 out of 4 cases Partner-absent has a lower value than Partner-present.  
In 1 out of 4 cases Partner-present has null value.

**Summary**-In this slide we summarize our findings.  
-Concerning the original query, some interesting findings include:  
-Column Farming-fishing has 2 of the 3 highest values.  
-Column Other-service has 2 of the 3 lowest values.  
-Row Divorced has 2 of the 3 highest values.  
-Row Separated has 1 of the 3 highest values.  
-Row Married-spouse-absent has 1 of the 3 lowest values.  
-Row Widowed has 2 of the 3 lowest values.  
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-  
-First, we tried to put the original result in context, by comparing its defining values with similar ones.  
-When we compared Other to its siblings, grouped by occupation and marital, we observed the following:  
-  
-In 4 out of 4 cases Other has lower value than Blue-collar.  
-In 4 out of 4 cases Other has lower value than white-collar.  
-When we compared Partner-absent to its siblings, grouped by occupation and marital, we observed the following:  
-In 3 out of 4 cases Partner-absent has a lower value than Partner-present.  
-In 1 out of 4 cases Partner-present has null value.