**CineCube Report**This is a report on the Avg of amount when and account is fixed to 'Benesov'. We will start by answering the original query and we complement the result with contextualization and detailed analyses.

**Answer to the original question**

|  |  |  |
| --- | --- | --- |
|  |  | central Bohemia |
|  | Household Payment | 3453.72 |
|  | Insurrance Payment | 831.83 |
|  | LEASING | 3269.25 |
|  | Loan Payment | 3836.88 |
|  | unknown | 1762.41 |

Here, you can see the answer of the original query. You have specified and account to be equal to 'Benesov'. We report on Avg of amount grouped by account at level 2, and reason at level 0 .  
You can observe the results in this table. We highlight the largest value with red and the lowest value with blue color.

**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 account**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Summary for account | **Benesov** | Beroun | Kladno | Kolin | Kutna Hora | Melnik | Mlada Boleslav | Nymburk | Praha - vychod | Praha - zapad | Pribram | Rakovnik |
|  | Household Payment | **3453.72** | 3440.02 | 4243.95 | 4623.67 | 4136.17 | 4045.22 | 3621.37 | 3159.28 | 3959.55 | 3412.97 | 3050.30 | 3782.48 |
|  | Insurrance Payment | **831.83** | 605.75 | 2280.25 | 1574.00 | 1303.45 | 340.75 | 2502.17 | 2387.18 | 1191.00 | 1619.33 | 363.40 | 1398.75 |
|  | LEASING | **3269.25** | 2376.65 | 1865.53 | 2229.00 | 1880.80 | 1924.97 | 3100.00 | 1307.60 | 1677.40 | 3816.70 | 2522.87 | 1307.00 |
|  | Loan Payment | **3836.88** | 5318.40 | 3369.40 | 4580.53 | 5832.03 | 4433.50 | 4176.98 | 3066.98 | 4434.30 | 4770.53 | 4803.84 | 4410.10 |
|  | unknown | **1762.41** | 2338.21 | 2424.53 | 2752.74 | 1573.47 | 2299.10 | 2015.92 | 1330.94 | 1706.67 | 2305.00 | 1348.07 | 2063.70 |

In this graphic, we put the original request in context by comparing the value 'Benesov' for account 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 amount while fixing and account at level 2 to be equal to ''central Bohemia''.  
Compared to its sibling we observe the following:  
In 3 out of 5 cases Benesov has higher value than Beroun.  
In 2 out of 5 cases Benesov has lower value than Beroun.  
In 2 out of 5 cases Benesov has higher value than Kladno.  
In 3 out of 5 cases Benesov has lower value than Kladno.  
In 1 out of 5 cases Benesov has higher value than Kolin.  
In 4 out of 5 cases Benesov has lower value than Kolin.  
In 2 out of 5 cases Benesov has higher value than Kutna Hora.  
In 3 out of 5 cases Benesov has lower value than Kutna Hora.  
In 2 out of 5 cases Benesov has higher value than Melnik.  
In 3 out of 5 cases Benesov has lower value than Melnik.  
In 1 out of 5 cases Benesov has higher value than Mlada Boleslav.  
In 4 out of 5 cases Benesov has lower value than Mlada Boleslav.  
In 4 out of 5 cases Benesov has higher value than Nymburk.  
In 1 out of 5 cases Benesov has lower value than Nymburk.  
In 2 out of 5 cases Benesov has higher value than Praha - vychod.  
In 3 out of 5 cases Benesov has lower value than Praha - vychod.  
In 1 out of 5 cases Benesov has higher value than Praha - zapad.  
In 4 out of 5 cases Benesov has lower value than Praha - zapad.  
In 4 out of 5 cases Benesov has higher value than Pribram.  
In 1 out of 5 cases Benesov has lower value than Pribram.  
In 1 out of 5 cases Benesov has higher value than Rakovnik.  
In 4 out of 5 cases Benesov has lower value than Rakovnik.

**Act II: Explaining results**In this series of slides we will present a detailed analysis of the values involved in the result of the original query. To this end, we drill-down the hierarchy of grouping levels of the result to one level of aggregation lower, whenever this is possible.

**Drilling down the Columns of the Original Result**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | *central Bohemia* |  | Household Payment | Insurrance Payment | LEASING | Loan Payment | unknown |
|  |  | Benesov | 3453.72 (36) | 831.83 (6) | 3269.25 (4) | 3836.88 (6) | 1762.41 (17) |
|  |  | Beroun | 3440.02 (43) | 605.75 (4) | 2376.65 (2) | 5318.40 (6) | 2338.21 (14) |
|  |  | Kladno | 4243.95 (38) | 2280.25 (4) | 1865.53 (6) | 3369.40 (8) | 2424.53 (15) |
|  |  | Kolin | 4623.67 (54) | 1574.00 (7) | 2229.00 (7) | 4580.53 (10) | 2752.74 (19) |
|  |  | Kutna Hora | 4136.17 (41) | 1303.45 (11) | 1880.80 (5) | 5832.03 (9) | 1573.47 (19) |
|  |  | Melnik | 4045.22 (36) | 340.75 (4) | 1924.97 (6) | 4433.50 (6) | 2299.10 (10) |
|  |  | Mlada Boleslav | 3621.37 (41) | 2502.17 (6) | 3100.00 (7) | 4176.98 (5) | 2015.92 (13) |
|  |  | Nymburk | 3159.28 (36) | 2387.18 (11) | 1307.60 (4) | 3066.98 (10) | 1330.94 (18) |
|  |  | Praha - vychod | 3959.55 (38) | 1191.00 (3) | 1677.40 (4) | 4434.30 (5) | 1706.67 (12) |
|  |  | Praha - zapad | 3412.97 (38) | 1619.33 (3) | 3816.70 (1) | 4770.53 (14) | 2305.00 (14) |
|  |  | Pribram | 3050.30 (30) | 363.40 (5) | 2522.87 (3) | 4803.84 (8) | 1348.07 (15) |
|  |  | Rakovnik | 3782.48 (31) | 1398.75 (4) | 1307.00 (1) | 4410.10 (8) | 2063.70 (10) |

In this slide, we expand dimension account by drilling down from level 2 to level 1. For each cell we show both the Avg of amount and the number of tuples that correspond to it in parentheses. We highlight the 15 lowest values in blue and the 15 largest in red color.  
Some interesting findings include:  
Column Loan Payment has 10 of the 15 highest values.  
Column Insurrance Payment has 9 of the 15 lowest values.

**Summary**-In this slide we summarize our findings.  
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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 Benesov to its siblings, grouped by account and reason, we observed the following:  
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-In 3 out of 5 cases Benesov has higher value than Beroun.  
-In 2 out of 5 cases Benesov has lower value than Beroun.  
-In 2 out of 5 cases Benesov has higher value than Kladno.  
-In 3 out of 5 cases Benesov has lower value than Kladno.  
-In 1 out of 5 cases Benesov has higher value than Kolin.  
-In 4 out of 5 cases Benesov has lower value than Kolin.  
-In 2 out of 5 cases Benesov has higher value than Kutna Hora.  
-In 3 out of 5 cases Benesov has lower value than Kutna Hora.  
-In 2 out of 5 cases Benesov has higher value than Melnik.  
-In 3 out of 5 cases Benesov has lower value than Melnik.  
-In 1 out of 5 cases Benesov has higher value than Mlada Boleslav.  
-In 4 out of 5 cases Benesov has lower value than Mlada Boleslav.  
-In 4 out of 5 cases Benesov has higher value than Nymburk.  
-In 1 out of 5 cases Benesov has lower value than Nymburk.  
-In 2 out of 5 cases Benesov has higher value than Praha - vychod.  
-In 3 out of 5 cases Benesov has lower value than Praha - vychod.  
-In 1 out of 5 cases Benesov has higher value than Praha - zapad.  
-In 4 out of 5 cases Benesov has lower value than Praha - zapad.  
-In 4 out of 5 cases Benesov has higher value than Pribram.  
-In 1 out of 5 cases Benesov has lower value than Pribram.  
-In 1 out of 5 cases Benesov has higher value than Rakovnik.  
-In 4 out of 5 cases Benesov has lower value than Rakovnik.  
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-Then we analyzed the results by drilling down one level in the hierarchy.  
-When we drilled down account, we observed the following facts:  
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-Column Loan Payment has 10 of the 15 highest values.  
-Column Insurrance Payment has 9 of the 15 lowest values.