Preppin Data 2022-WK34: C&BSCo Parameters, Parameters, Parameters

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🔗 Link to challenge

https://preppindata.blogspot.com/2022/08/2022-week-34-c-parameters-parameters.html

🎯 Requirements

- Input data
- Merge Km's and min's as Minutes
- Change 'Value' to Mins
- Split up the unnamed column into:
    - Coach
    - Calories
    - Music Type
- Change Music Type values to be Title Case (first letter of each word is capitalised)
- Create three parameters:
    - Music Type
    - Coach
    - Top N
- Create a way to return the Top N value selected and order the file with the highest calories burnt at the top
- Create filters so only the parameter selection remains in the output data set
    - For Top N parameter it's all the values up to that number
- Output the data but use the parameter values in the file name so the CEO knows what it contains

📸 Code snapshot

The below is a snapshot of what the compiled sql for the [final output](#) looks like. Check [my Github repository](#) for additional context and a copy of the notebook markdown.

📙 Notebook cells

all_data

```sql
SELECT * FROM preppindata.`2022w34_cycling`;
```

Untitled

Date	Value	Units ↓	Type	Spin_Class	
2020-12-16	10	min	Apple Fitness	Bakari - 125 - everything rock	
2020-12-16	10	min	Apple Fitness	Kym - 134 - everything rock	
2021-01-10	10	min	Apple Fitness	Kym - 167 - everything rock	
2021-01-22	10	min	Apple Fitness	Sherica - 149 - latest hits	
2021-02-01	10	min	Apple Fitness	Emily - 144 - top country	

🗄 5 columns · 107 rows   🕐 0.8 seconds (35 minutes ago)

step_1

```
-- cleaning up values and units
-- splitting up the spin_class column
-- capitalize music type
SELECT
Date,
Value,
CASE WHEN Units = "km" THEN "min" ELSE "min" END AS Mins,
Type,
TRIM(SPLIT(Spin_Class,"-") [ORDINAL(1)]) AS Coach,
TRIM(SPLIT(Spin_Class,"-") [ORDINAL(2)]) AS Calories,
INITCAP(TRIM(SPLIT(Spin_Class,"-") [ORDINAL(3)])) AS Music_Type,
FROM preppindata.`2022w34_cycling`;
```

Untitled

Date	Value ↓	Mins	Type	Coach	Calories	Music_Type	
2020-12-19	45	min	Apple Fitness	Bakari	565	Latest Hits	
2020-12-24	45	min	Apple Fitness	Sherica	588	Latest Hits	
2020-12-30	45	min	Apple Fitness	Sherica	663	Upbeat Anthems	
2021-01-03	45	min	Apple Fitness	Tyrell	668	Hiphop	
2021-01-07	45	min	Apple Fitness	Bakari	668	Upbeat Anthems	

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step_2

```
-- rank coaches & music types by calories
SELECT *,
DENSE_RANK() OVER (PARTITION BY Coach ORDER BY Calories DESC) AS Calorie_Rank,
DENSE_RANK() OVER (PARTITION BY Music_Type ORDER BY Calories DESC) AS Music_Type_Rank
FROM step_1;
```

Untitled

Date	Value	Mins	Type	Coach	Calories	Music_Type	Calc
2021-03-10	45	min	Apple Fitness	Kym	727	Everything Rock	1
2022-08-16	45	min	Apple Fitness	Sherica	685	Everything Rock	1
2022-06-10	45	min	Apple Fitness	Tyrell	664	Everything Rock	5
2022-08-05	30	min	Apple Fitness	Tyrell	495	Everything Rock	8
2021-03-01	30	min	Apple Fitness	Kym	489	Everything Rock	4

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🙍‍♀️ **Final output**

To select the **TOP N by Coach or Music Type** you can use the table filters below. Select the Coach or Music Type and then use the rank filters to determine the TOP N by selecting values less than or equal to N.

---

output_top_n_coach
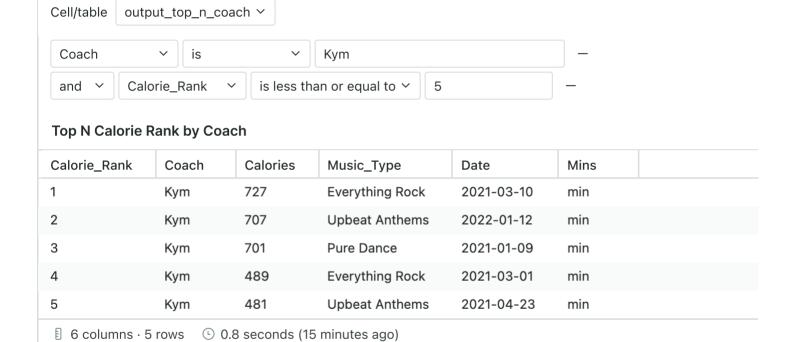
```
-- table for top n coach
SELECT
Calorie_Rank,
Coach,
Calories,
Music_Type,
Date,
Mins
FROM step_2;
```

Untitled

Calorie_Rank	Coach	Calories	Music_Type	Date	Mins	
1	Sherica	685	Everything Rock	2022-08-16	min	
2	Sherica	663	Upbeat Anthems	2020-12-30	min	
3	Sherica	633	Hiphop	2021-02-24	min	
4	Sherica	596	Upbeat Anthems	2021-11-28	min	
5	Sherica	588	Latest Hits	2020-12-24	min	

▯ 6 columns · 107 rows   🕐 1.1 seconds (34 minutes ago)

coaches

```
SELECT DISTINCT Coach FROM output_top_n_coach;
```

Untitled

Coach	
Bakari	
Kym	
Sherica	
Emily	
Gregg	

▤ 1 column · 6 rows   ⏱ 1 second (34 minutes ago)

top_n_coach

Cell/table   [output_top_n_coach ⌄]

[Coach ⌄]   [is ⌄]   [Kym]   —

[and ⌄] [Calorie_Rank ⌄] [is less than or equal to ⌄] [5]   —

Top N Calorie Rank by Coach

Calorie_Rank	Coach	Calories	Music_Type	Date	Mins	
1	Kym	727	Everything Rock	2021-03-10	min	
2	Kym	707	Upbeat Anthems	2022-01-12	min	
3	Kym	701	Pure Dance	2021-01-09	min	
4	Kym	489	Everything Rock	2021-03-01	min	
5	Kym	481	Upbeat Anthems	2021-04-23	min	

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output_top_n_music_type

```
-- table for top n music type
SELECT
Music_Type_Rank,
Coach,
Calories,
Music_Type,
Date,
Mins
FROM step_2;
```

Untitled

Music_Type_Rank	Coach	Calories	Music_Type	Date	Mins	
1	Kym	727	Everything Rock	2021-03-10	min	
2	Sherica	685	Everything Rock	2022-08-16	min	
3	Tyrell	664	Everything Rock	2022-06-10	min	
4	Tyrell	495	Everything Rock	2022-08-05	min	
5	Kym	489	Everything Rock	2021-03-01	min	

▤ 6 columns · 107 rows   ⏱ 1.1 seconds (9 minutes ago)

---

music_type

```
SELECT DISTINCT Music_Type FROM step_2;
```

Untitled

Music_Type	
Everything Rock	
Latest Hits	
Top Country	
Hiphop	
Latin Grooves	
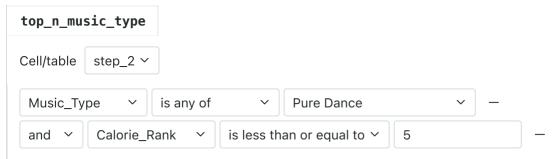
▤ 1 column · 8 rows   ⏱ 0.9 seconds (34 minutes ago)

top_n_music_type

Cell/table [step_2 ⌄]

[Music_Type ⌄] [is any of ⌄] [Pure Dance ⌄] —

[and ⌄] [Calorie_Rank ⌄] [is less than or equal to ⌄] [5] —

Top N Calorie Rank by Music Type

Date	Value	Mins	Type	Coach	Calories	Music_Type	Calorie_R
2021-03-24	45	min	Apple Fitness	Bakari	707	Pure Dance	3
2021-01-09	45	min	Apple Fitness	Kym	701	Pure Dance	3
2021-03-17	45	min	Apple Fitness	Tyrell	694	Pure Dance	1

🗄 9 columns · 3 rows   🕐 0.8 seconds (15 minutes ago)