New Field "Track Length"

Use track length and BestLapTime to calculate Average Speed

New Field "Average Speed"

New Field "Distance"

New Field "Penalty"

Insert "RSSI" and "Freq" it was not working and I remove it

Create 2 Variable:

- "DNS" Do not Start
- "DNF" Do no Finish

Both variable will have 0 time, I just need to have this info on the DB.

For example, in this case pilot 9 crash in the second lap, it does not have time for the 3rd lap, we write DNF in the field of LAP 3.

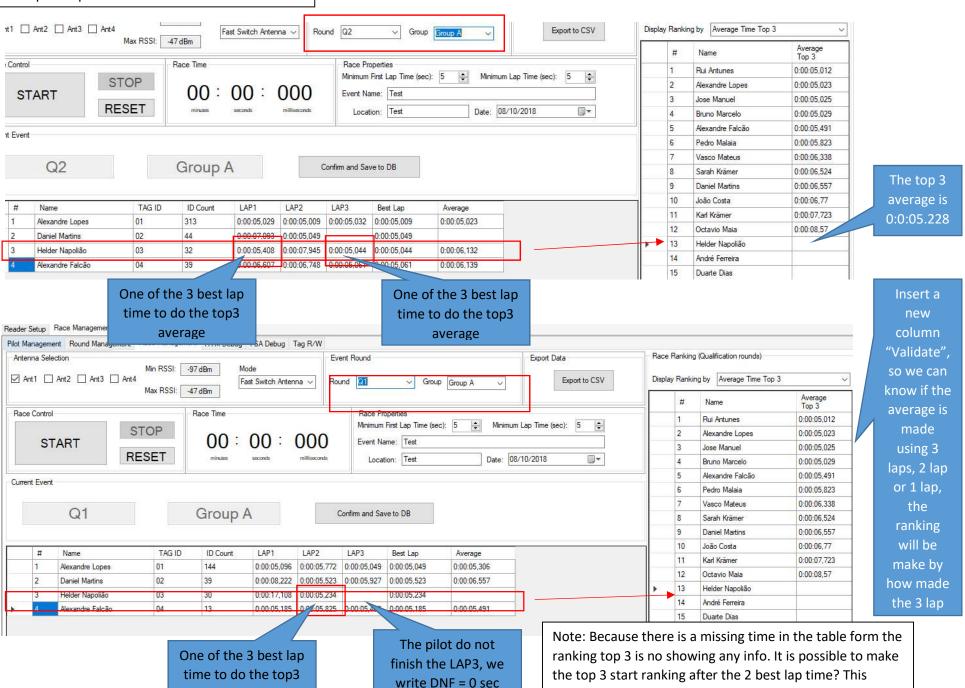Ranking by using the 3 best lap times of all Qualifications rounds:

See this example for pilot 3



**First screenshot (top):**

Ant1 ☐ Ant2 ☐ Ant3 ☐ Ant4    Max RSSI: -47 dBm    Fast Switch Antenna    Round Q2    Group Group A    Export to CSV

Race Control — START / STOP / RESET

Race Time: 00 : 00 : 000 (minutes seconds milliseconds)

Race Properties: Minimum First Lap Time (sec): 5    Minimum Lap Time (sec): 5    Event Name: Test    Location: Test    Date: 08/10/2018

Current Event: Q2 | Group A | Confirm and Save to DB

| # | Name | TAG ID | ID Count | LAP1 | LAP2 | LAP3 | Best Lap | Average |
|---|------|--------|----------|------|------|------|----------|---------|
| 1 | Alexandre Lopes | 01 | 313 | 0:00:05,029 | 0:00:05,009 | 0:00:05,032 | 0:00:05,009 | 0:00:05,023 |
| 2 | Daniel Martins | 02 | 44 | 0:00:07,093 | 0:00:05,049 | | 0:00:05,049 | |
| 3 | Helder Napolião | 03 | 32 | 0:00:05,408 | 0:00:07,945 | 0:00:05,044 | 0:00:05,044 | 0:00:06,132 |
| 4 | Alexandre Falcão | 04 | 39 | 0:00:06,607 | 0:00:06,748 | 0:00:05,061 | 0:00:05,061 | 0:00:06,139 |

Display Ranking by: Average Time Top 3

| # | Name | Average Top 3 |
|---|------|---------------|
| 1 | Rui Antunes | 0:00:05,012 |
| 2 | Alexandre Lopes | 0:00:05,023 |
| 3 | Jose Manuel | 0:00:05,025 |
| 4 | Bruno Marcelo | 0:00:05,029 |
| 5 | Alexandre Falcão | 0:00:05,491 |
| 6 | Pedro Malaia | 0:00:05,823 |
| 7 | Vasco Mateus | 0:00:06,338 |
| 8 | Sarah Krämer | 0:00:06,524 |
| 9 | Daniel Martins | 0:00:06,557 |
| 10 | João Costa | 0:00:06,77 |
| 11 | Karl Krämer | 0:00:07,723 |
| 12 | Octavio Maia | 0:00:08,57 |
| 13 | Helder Napolião | |
| 14 | André Ferreira | |
| 15 | Duarte Dias | |

*Annotations:*
- One of the 3 best lap time to do the top3 average
- One of the 3 best lap time to do the top3 average
- The top 3 average is 0:0:05.228

**Second screenshot (bottom):**

Reader Setup | Race Management
Pilot Management | Round Management | ... | TTM Debug | FSA Debug | Tag R/W

Antenna Selection: ☑ Ant1 ☐ Ant2 ☐ Ant3 ☐ Ant4    Min RSSI: -97 dBm    Max RSSI: -47 dBm    Mode: Fast Switch Antenna

Event Round: Round Q1    Group Group A    Export Data: Export to CSV

Race Control — START / STOP / RESET

Race Time: 00 : 00 : 000 (minutes seconds milliseconds)

Race Properties: Minimum First Lap Time (sec): 5    Minimum Lap Time (sec): 5    Event Name: Test    Location: Test    Date: 08/10/2018

Current Event: Q1 | Group A | Confirm and Save to DB

| # | Name | TAG ID | ID Count | LAP1 | LAP2 | LAP3 | Best Lap | Average |
|---|------|--------|----------|------|------|------|----------|---------|
| 1 | Alexandre Lopes | 01 | 144 | 0:00:05,096 | 0:00:05,772 | 0:00:05,049 | 0:00:05,049 | 0:00:05,306 |
| 2 | Daniel Martins | 02 | 39 | 0:00:08,222 | 0:00:05,523 | 0:00:05,927 | 0:00:05,523 | 0:00:06,557 |
| 3 | Helder Napolião | 03 | 30 | 0:00:17,108 | 0:00:05,234 | | 0:00:05,234 | |
| 4 | Alexandre Falcão | 04 | 13 | 0:00:05,185 | 0:00:05,825 | 0:00:05,... | 0:00:05,185 | 0:00:05,491 |

Race Ranking (Qualification rounds)
Display Ranking by: Average Time Top 3

| # | Name | Average Top 3 |
|---|------|---------------|
| 1 | Rui Antunes | 0:00:05,012 |
| 2 | Alexandre Lopes | 0:00:05,023 |
| 3 | Jose Manuel | 0:00:05,025 |
| 4 | Bruno Marcelo | 0:00:05,029 |
| 5 | Alexandre Falcão | 0:00:05,491 |
| 6 | Pedro Malaia | 0:00:05,823 |
| 7 | Vasco Mateus | 0:00:06,338 |
| 8 | Sarah Krämer | 0:00:06,524 |
| 9 | Daniel Martins | 0:00:06,557 |
| 10 | João Costa | 0:00:06,77 |
| 11 | Karl Krämer | 0:00:07,723 |
| 12 | Octavio Maia | 0:00:08,57 |
| 13 | Helder Napolião | |
| 14 | André Ferreira | |
| 15 | Duarte Dias | |

*Annotations:*
- One of the 3 best lap time to do the top3 average
- The pilot do not finish the LAP3, we write DNF = 0 sec
- Insert a new column "Validate", so we can know if the average is made using 3 laps, 2 lap or 1 lap, the ranking will be make by how made the 3 lap
- Note: Because there is a missing time in the table form the ranking top 3 is no showing any info. It is possible to make the top 3 start ranking after the 2 best lap time? This mean that a pilot after the second lap