New files:

Race registration file

* Race id (key to Race file)
* Racer id (key to Racer file)
* Car #
* Points earned
* Place in race

Race file

* Race name
* # tracks
* Den level
* # of heats
* Race status (Registering/Started/Complete)
* First place racer id (key to Racer file)
* Second place racer id (key to Racer file)
* Third place race id (key to Racer file)
  + Only one race can be Registering or Started
  + New race cannot start registering until all other races are Started or complete

Heat Results file

* Race id (key to Race file)
* Heat #
* 1st place (key to Race Registration file)
* 2st place (key to Race Registration file)
* 3st place (key to Race Registration file)
* 4st place (key to Race Registration file)

*Registration screen*

|  |
| --- |
| Race description (output)  Racer (input, drop down box)  Car# (input, drop down) |

* Can only have one registration screen active at a time

*Race Maintenance*

|  |
| --- |
| Race description (always allow change)  Den level (update only if race is registering; entry required)  # heats (update only if the race is registering; entry required before race starts)  # tracks (update only if the race is registering; entry required before race starts)  Race status (Registering/Started/Complete) |

* Status rules
  + Any number of races can be in an Registering or Complete status
  + Once a race starts, it cannot go back to registering status
  + Once race is complete, it may not change status again

*Enter Heat Results (race\_heat file)*

|  |
| --- |
| Race description (output)  Heat (output – next non-updated entry)  1st Place (all - drop down with 4 possible cars and a blank – or better idea below)  2nd Place  3rd Place  4th Place  Perhaps   * a column of racers and their card numbers on the right. * To the left of that column are 4 columns of radio buttons… a column for 1st, 2nd, 3rd, and 4th. Only one car can be checked off for a column |

* Would only be allowed to add the record if all four values assigned – and all different
* This may be a standard “table entry” – get to screen by hitting insert button
* This would allow correction of old records…
* You would be prevented from entering more records then there are heats in the race
* OR: when race is started, all records are created, but you can update the records (better)
* As records are entered or updated, recalculate points in Race registration file

*Show Race Results (race\_heat file)*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Heat | 1st Place | 2nd Place | 3rd Place | 4th Place |
| 1 | Joe car #5 | Mike car #4 | Clyde – car #6 | George – car #7 |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |
| 5 |  |  |  |  |
| 6 |  |  |  |  |
| 7 |  |  |  |  |
| 8 |  |  |  |  |
| Top 3 Race Scores  4 Points - Joe Car 5  3 Points – Mike Car 4  2 Points – Clyde Car 6 | | | | |