

Data And Analysis

Assignment 2

Mini-World 3

<https://www.bedrace.co.uk>



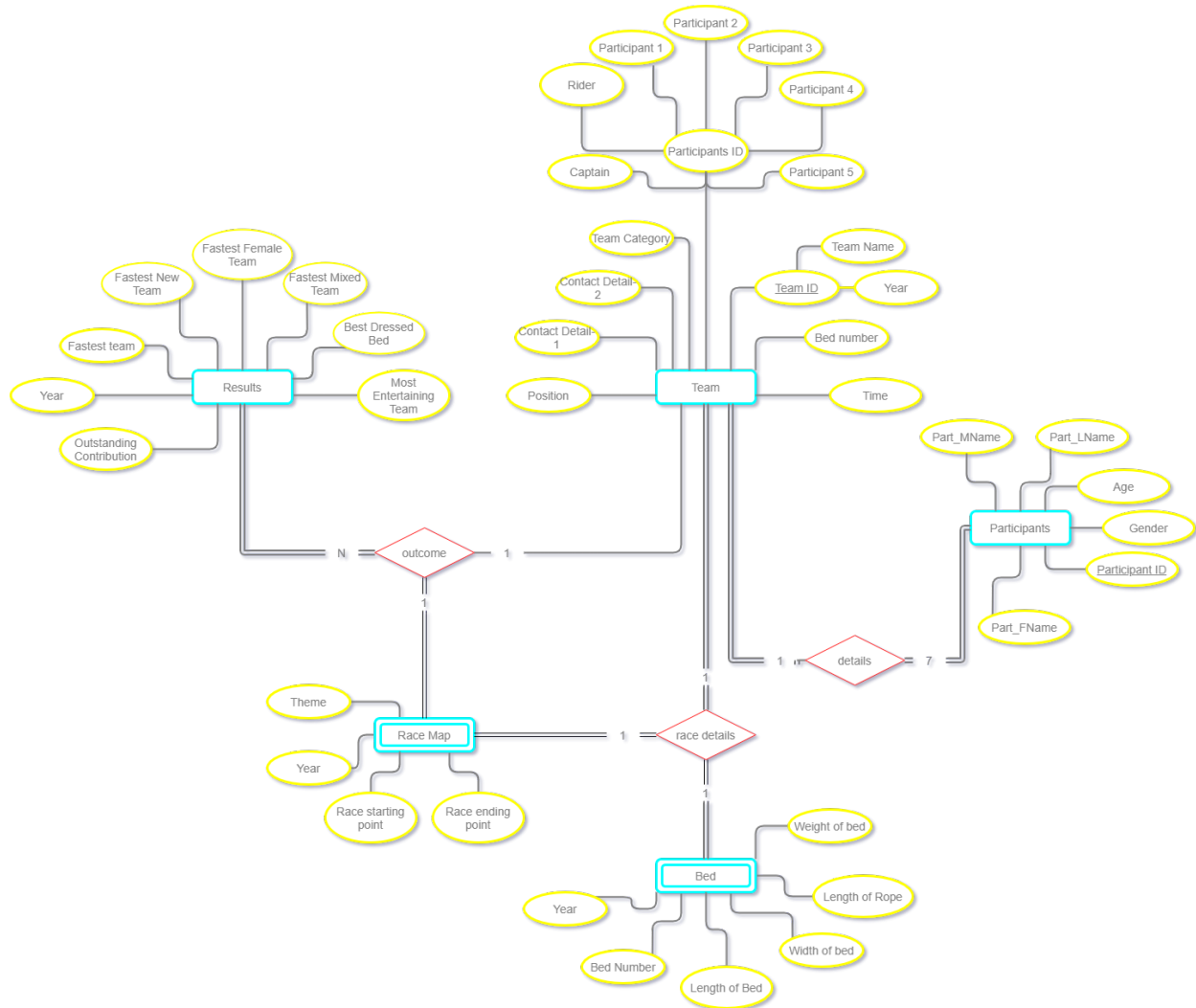
Team:- Up To Data

Naimeesh Narayan Tiwari - 2020101074

Soveet Kumar Nayak - 2020101086

Khushi Agarwal - 2020101092

EER Diagram



Critical evaluation

- Contact Detail-1 and Contact Detail-2 can be combined to form a multivalued attribute.
- Part_FName, Part_MName, Part_LName in the Participants could have been formed as a composite attribute. Similarly, the Length of Bed and Width of Bed in Bed table could have been made a composite attribute.
- Relationships have not been named.
- Bed Number and Year will serve as a better attribute as in the case when two teams will be having the same name in the same year then it will violate the uniqueness of the primary key.
- Team has Beds on Race Map relationship should have a ratio 1:1:1. Since,
1 Team with 1 Bed will be participating in 1 Race Map (Year).
1 Bed on 1 Race Map will be owned by 1 Team.
1 Team on 1 Race Map will have 1 Bed.
- Results on RaceMap with Teams relationship should have ratio N:1:1.
1 Result type (fastest team, fastest fixed team) on 1 Race Map will be given to 1 Team.
1 Team on 1 Race Map can win N Result types.
1 Result Type will be won by 1 Team on 1 particular Race Map.

Designing EER model was fairly easy, the requirements were elaborate.