

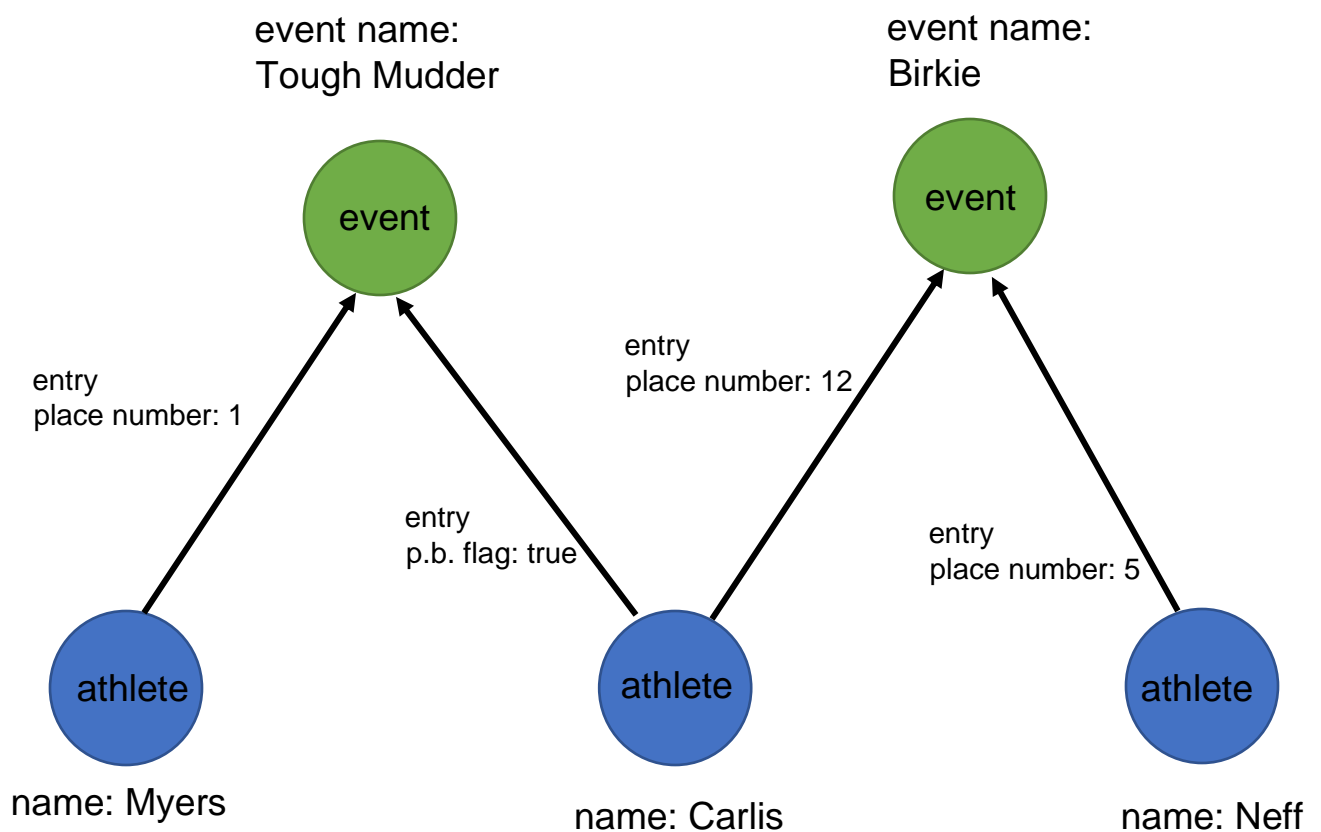


Example athlete names: Carlis, Myers, Neff

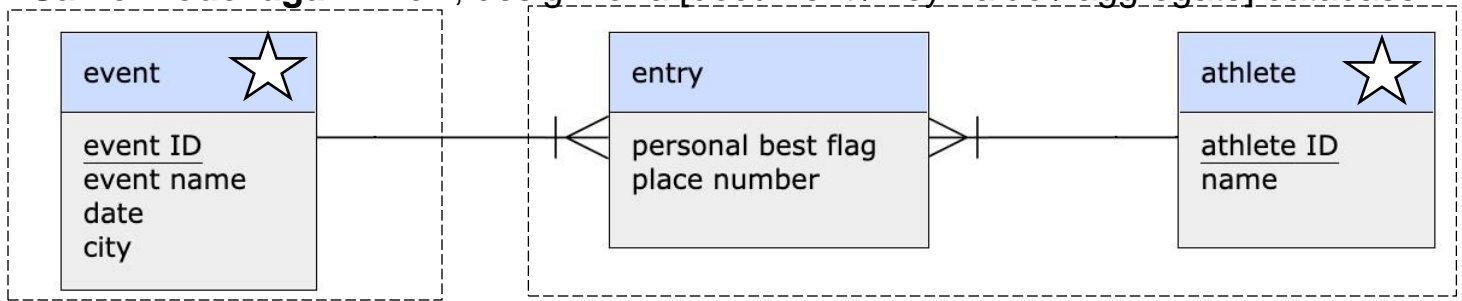
Example event names: Tough Mudder (Hugo, MN - 7/13/2019)
Birkie (Hayward, WI - 2/24/2018)

1. Draw a **graph database** representation of all of the following:

For the “Tough Mudder” event: Myers gets 1st place, and Carlis does not place but it is still his personal best. For the “Birkie” event, Carlis gets 12th place and Neff gets 5th place. (4 points)



Same model again. Now, design for a [document / key-value / aggregate] database.



Example athlete names: Carlis, Myers, Neff

Example event names: Tough Mudder (Hugo, MN - 7/13/2019)
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2. Draw a star ☆ on the entities you would choose as **root** entities.
3. Draw dotted line - - - boundaries around sets of entities you would aggregate together for data storage and retrieval.
4. Following your choices in #2 and #3, draw a JSON representation of one entry of one athlete in one event — all three entities and all their attributes represented. (4 points)

```

{
  "athlete": {
    "athlete_id": 1234,
    "name": "Carlis",
    "entries": [
      {
        "personal_best_flag": false,
        "place_number": 12
      }
    ]
  },
  "event": {
    "event_id": 5678,
    "event_name": "Birkie",
    "date": "2018-02-24",
    "city": "Hayward"
  }
}

```