



Olympics Database



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February, 2021



Problem statement

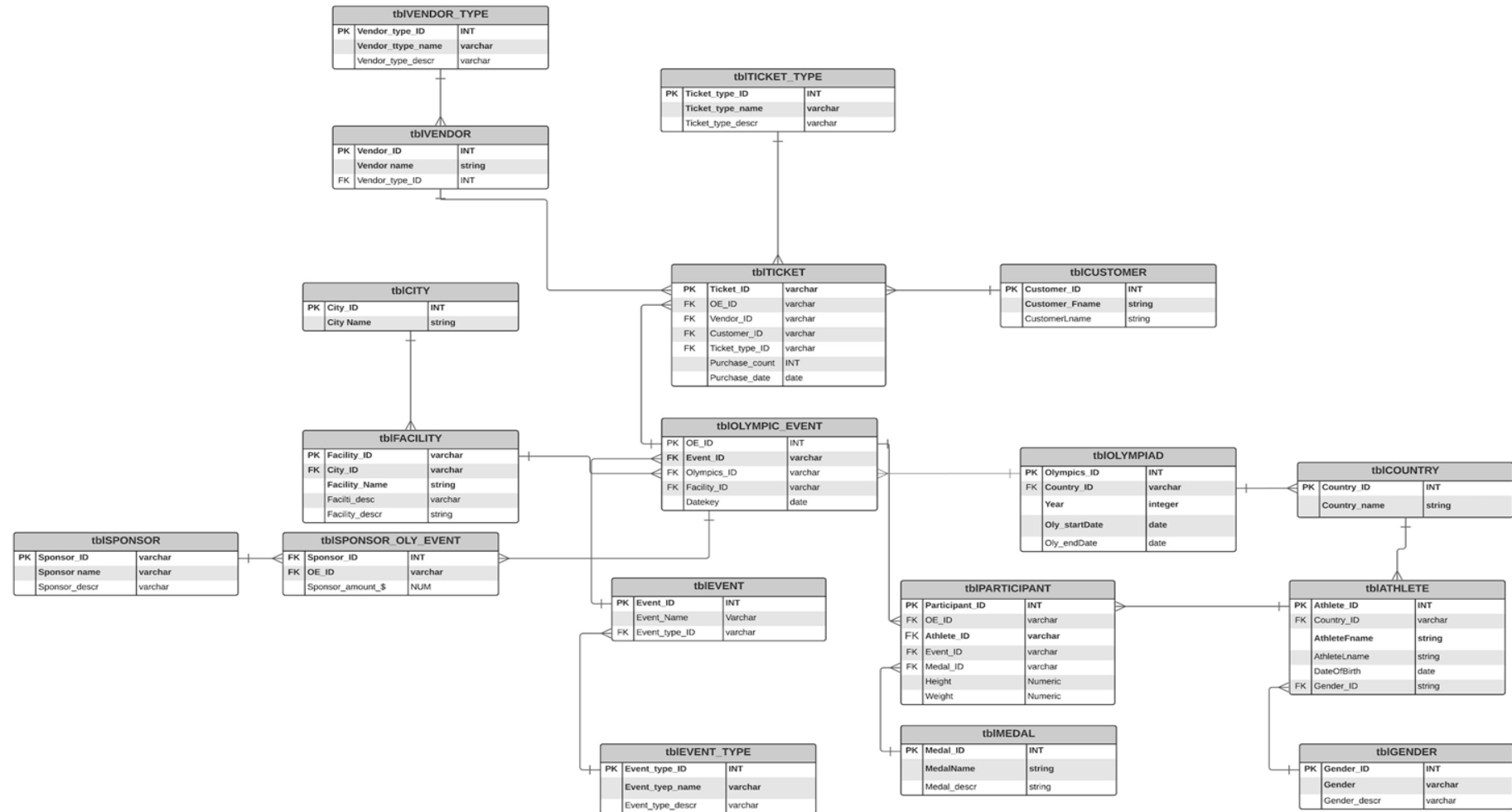
- Olympics = Mecca of sports
 - 10,000 participants
 - 2012 London Olympics Record viewership
- Marketing revenues:
 - 2012 : \$8 billion
 - 2016 : \$7.7 billion
 - 2021: Japan committed \$13.7 billion
- Organizing the sport extravaganza :
 - Management of huge data
 - Statistics of every sport - popularity, growth
 - Partnering sponsors with appropriate sports



ERD

- **Entity Relationship Diagram**





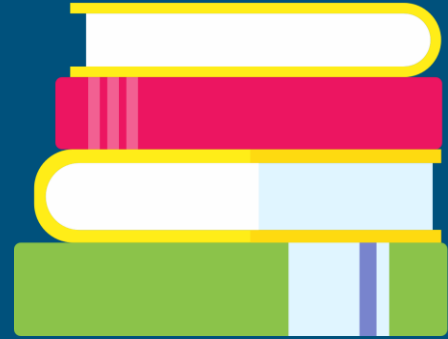
Tables populating

- 9 Look-up tables : Medal, Country, Customer
- 9 Transactional tables : Olympic, Participant, Olympic event
- INSERT INTO lookup tables : stored procedures & source rows from PEEPS/University
- INSERT INTO transactional tables : nested stored procedure with getID()



Business rules and computed columns

- Number of tickets one customer can buy {limit 10}
 - Age of a participant {21 and above only}
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- Number of tickets - grouped by ticket type: Digital/Physical
 - Count of times a customer made a purchase; not the number of tickets bought



Things we can improve

Current design

- Individual events only
- Stadiums can host one event

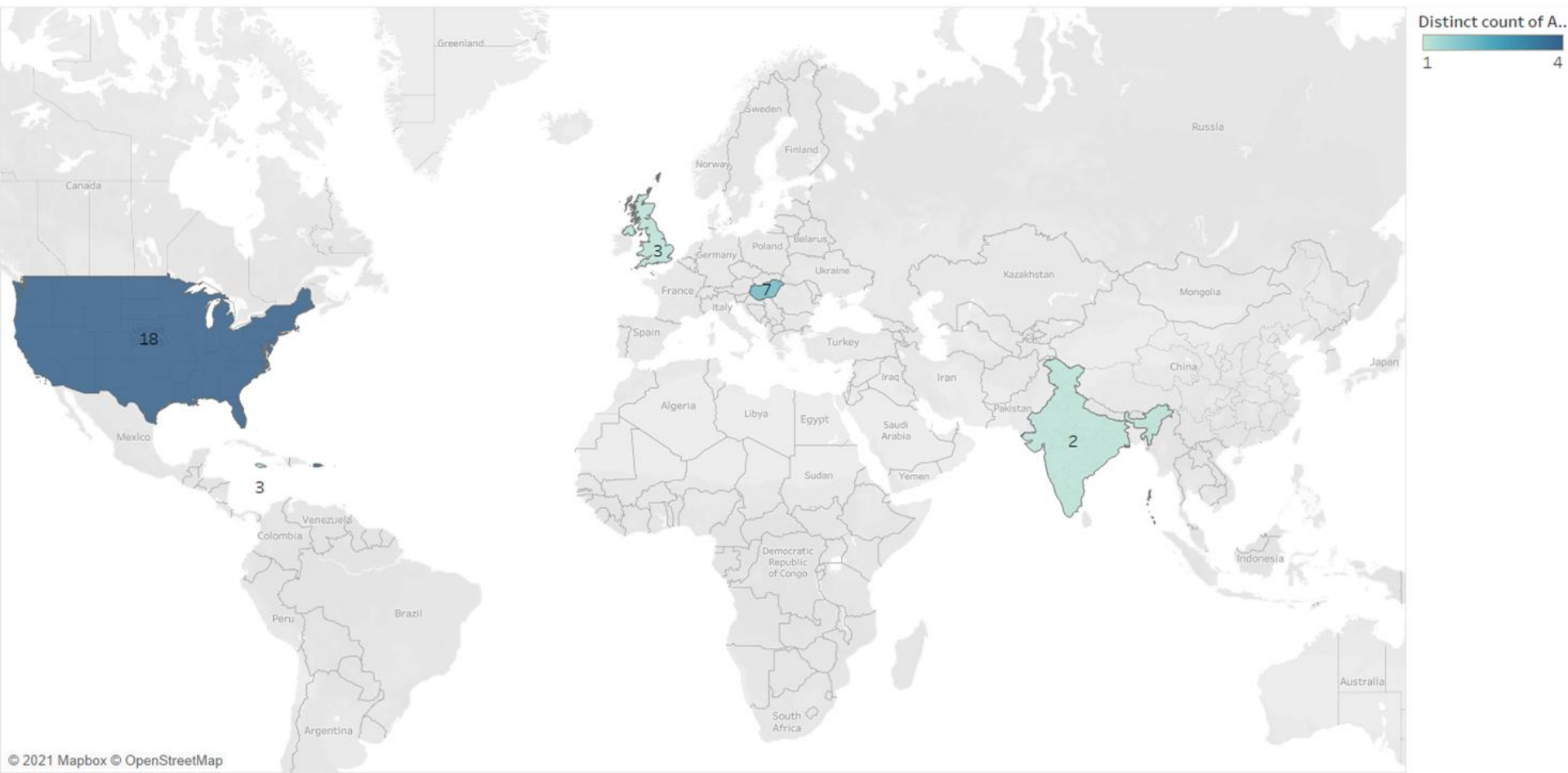
Modifications

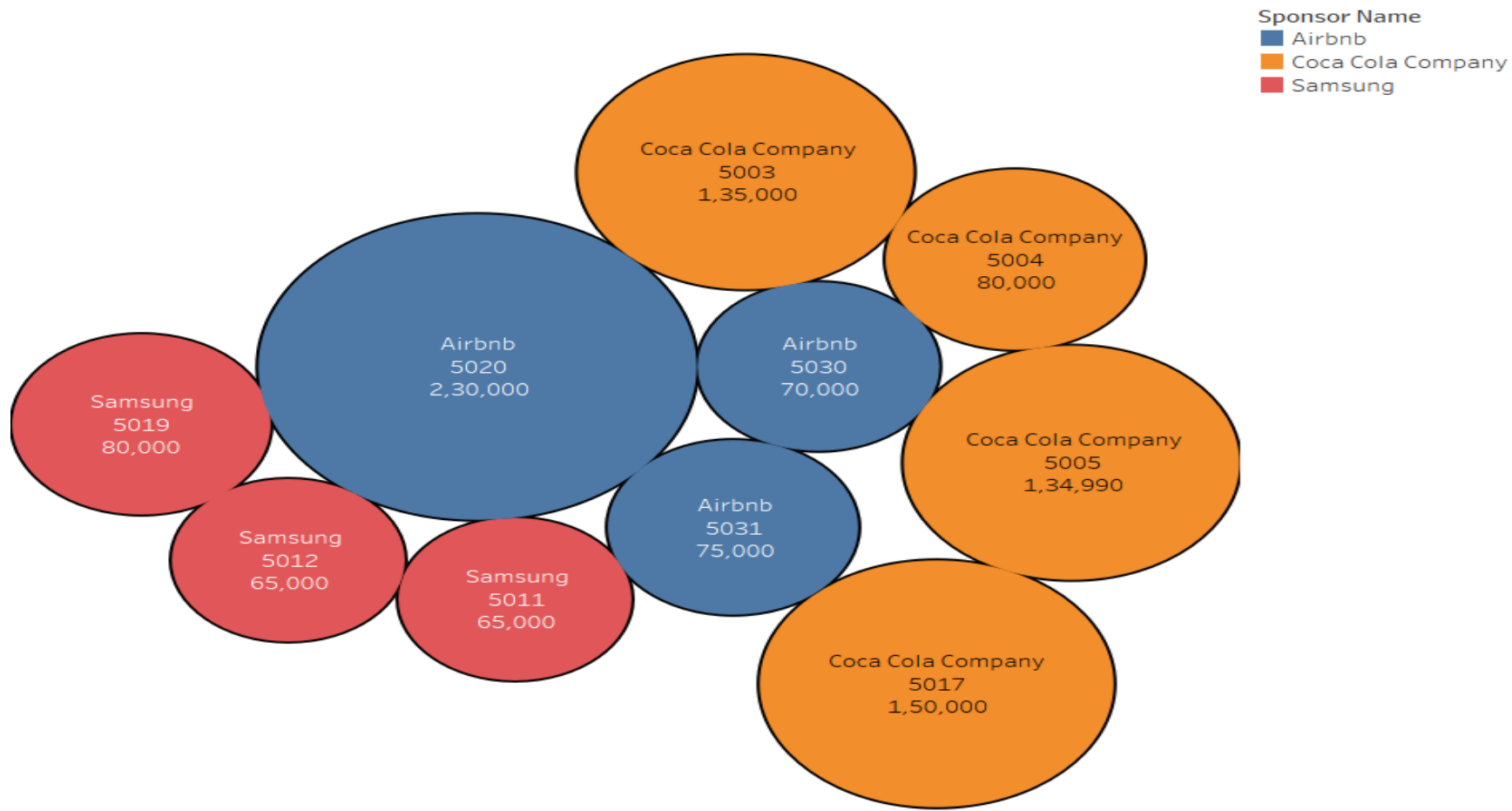
- Team events as well
- Stadiums to event multiple events at the same time
- World and olympic records for every event

Data Visualization

- Athlete count per country and medals tally
 - Sponsorship details per event
 - Ticket sales per event
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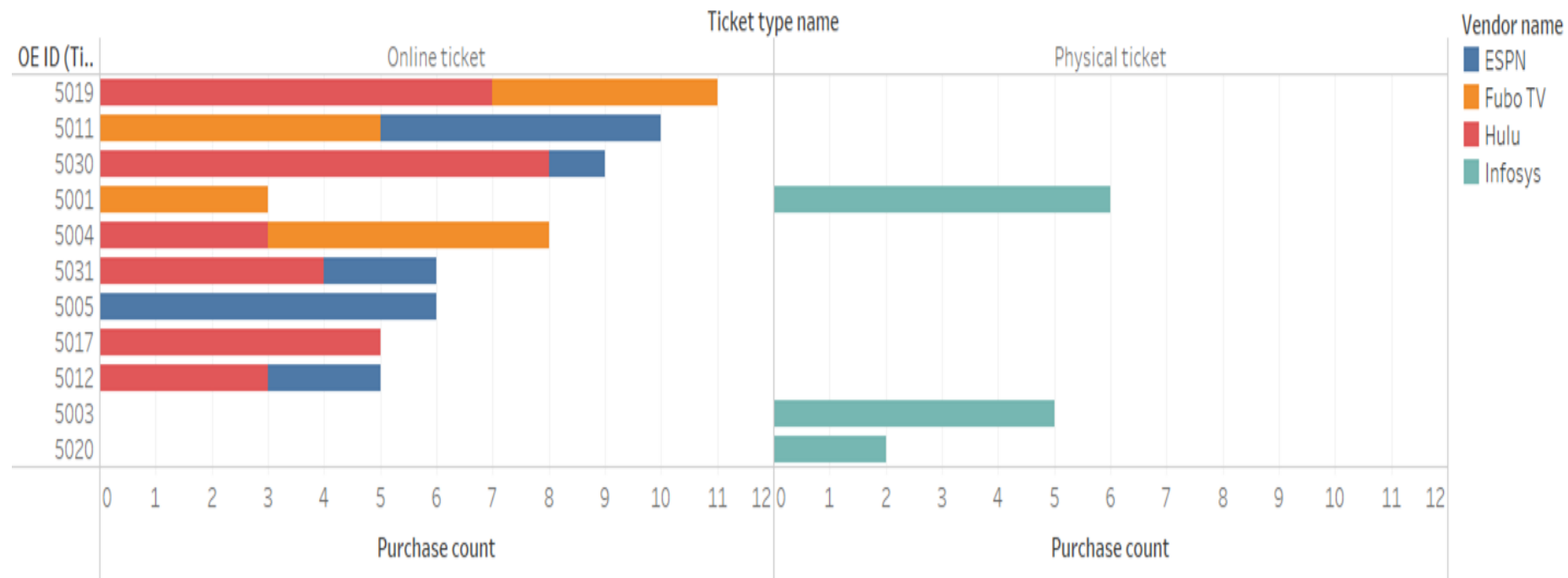
Athlete count and medal tally





Sponsorship details and amount

Ticket Sales



Sum of Purchase count for each OE ID (Ticket) broken down by Ticket type name. Color shows details about Vendor name.



Thank you



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