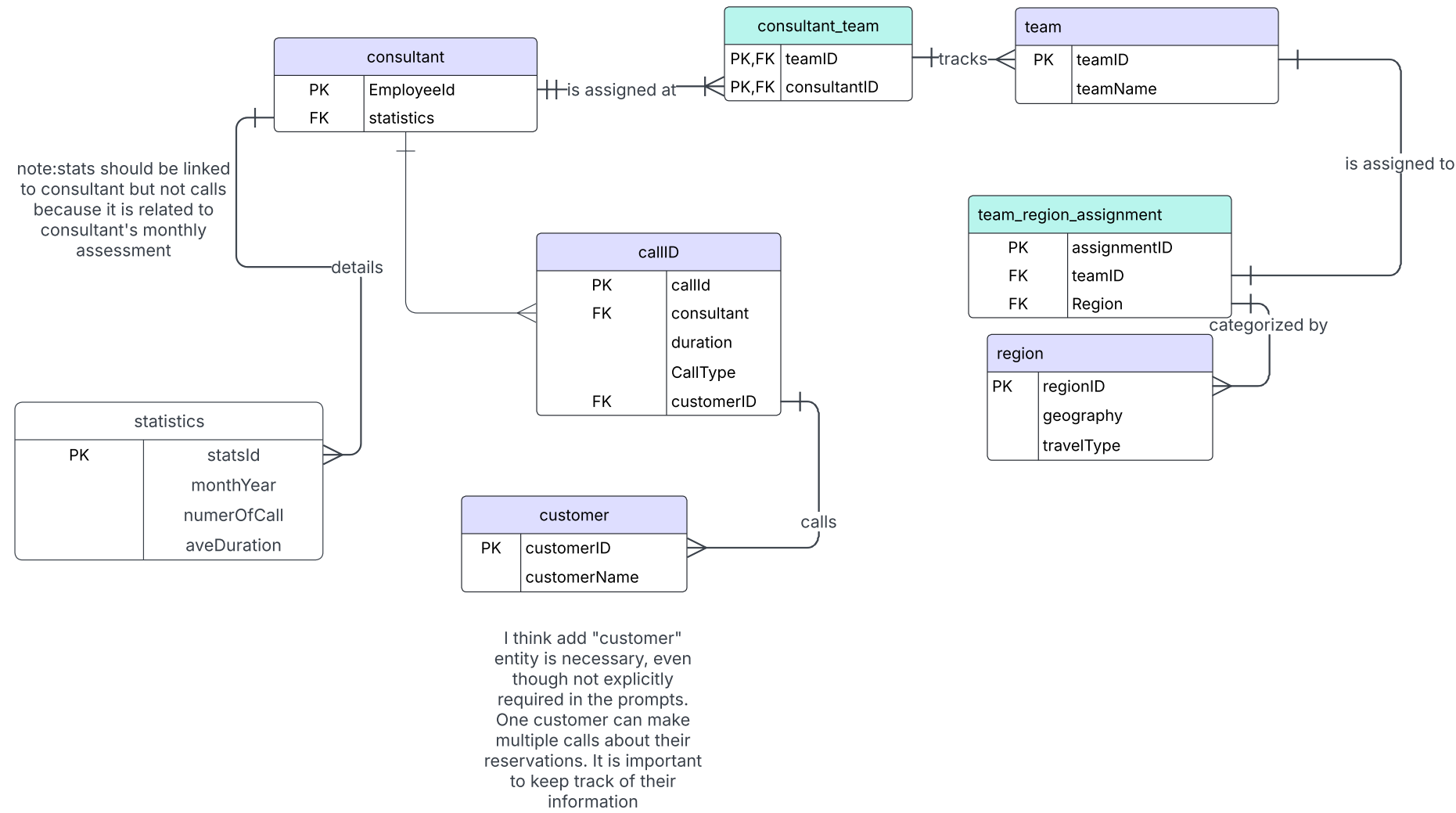


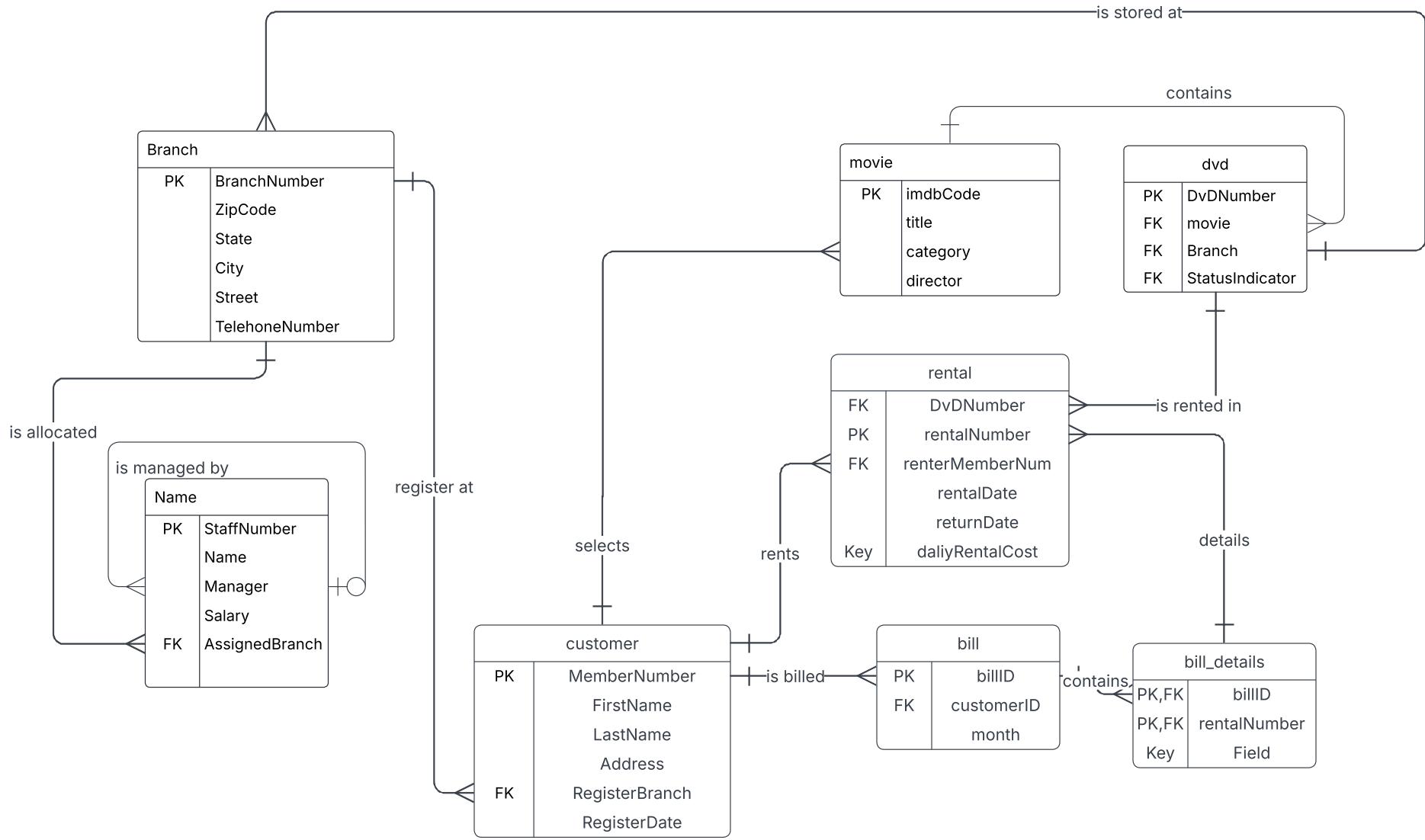
Travel Consulting company

The company has 12 different teams of consultants. Each team is named after an animal and handles a **single region** of the world (such as North America or Central Asia). Regions are categorized based upon geography and most common type of travel (such as Business or Adventure). **Management may re-assign teams to different regions depending upon business needs or time of year.** Although, typically, consultants are only assigned to one team, **sometimes they are assigned to other teams** as well, to handle sickness or other resource shortfalls. Consultants take calls about customers' new travel needs or existing reservations. They log the calls they take and statistics are generated each month based upon the number of calls per day of each type and their duration.



DVD RENTAL COMPANY

The DVD rental company **has** several **branches** throughout the United States. The data held on each branch is the branch address **made up of** street, city, state and zip code, and the telephone number. Each branch is given a **branch number**, which is unique throughout the country. **Each branch is allocated staff**, which includes a manager. Each branch can **only have one manager** at any given time. The manager is responsible for the day-to-day running of a given branch. **The data held on a member of staff is his or her name, position, and salary.** Each member of staff is given a staff number, which is unique throughout the company. Staff members may be **re-assigned to different branches** but will **only work at one branch** at any given time. **Each branch has a stock of DVDs.** Each DVD contains a **movie**. The data held on each movie is the imdbCode, title, category and the director. The imdbCode uniquely identifies each movie. In many cases, **there are several copies of each DVD at a branch**, and the individual copies are identified using a **DVD number**. The DVD number is unique throughout the company and each copy has a status indicator. A movie is given a category such as Action, Adult, Children, Drama, Horror, or Sci-Fi. The status indicates whether a specific copy of a DVD is available for rent.



Before borrowing a DVD from the company, a customer **must first register as a member** of a **local branch**. The data held on a member is the first and last name, address, and the date that the member registered at a branch. **Customers can be members of different branches at the same time.** Each customer is given a **member number**, which is unique throughout all the branches of the company. Once registered with a branch, a member is able to rent DVDs, up to a **maximum of ten** at any one time. The data held on each **DVD** rented is **the rental number, the full name and number of the member**, the DVD number, title, daily rental cost (which is a standard rate for all copies of a DVD at a branch) and the dates the DVD is rented out and returned.

- 2.1 Your model should reflect each of the entities and attributes that are described in this model. Primary and Foreign keys should be clearly denoted.
- 2.2 Your model should reflect each of the relationships needed to describe this company. Each relationship should be labeled and show its cardinality.
- 2.3 it is not necessary to add additional attributes for any of the entities unless they are needed to implement relationships.