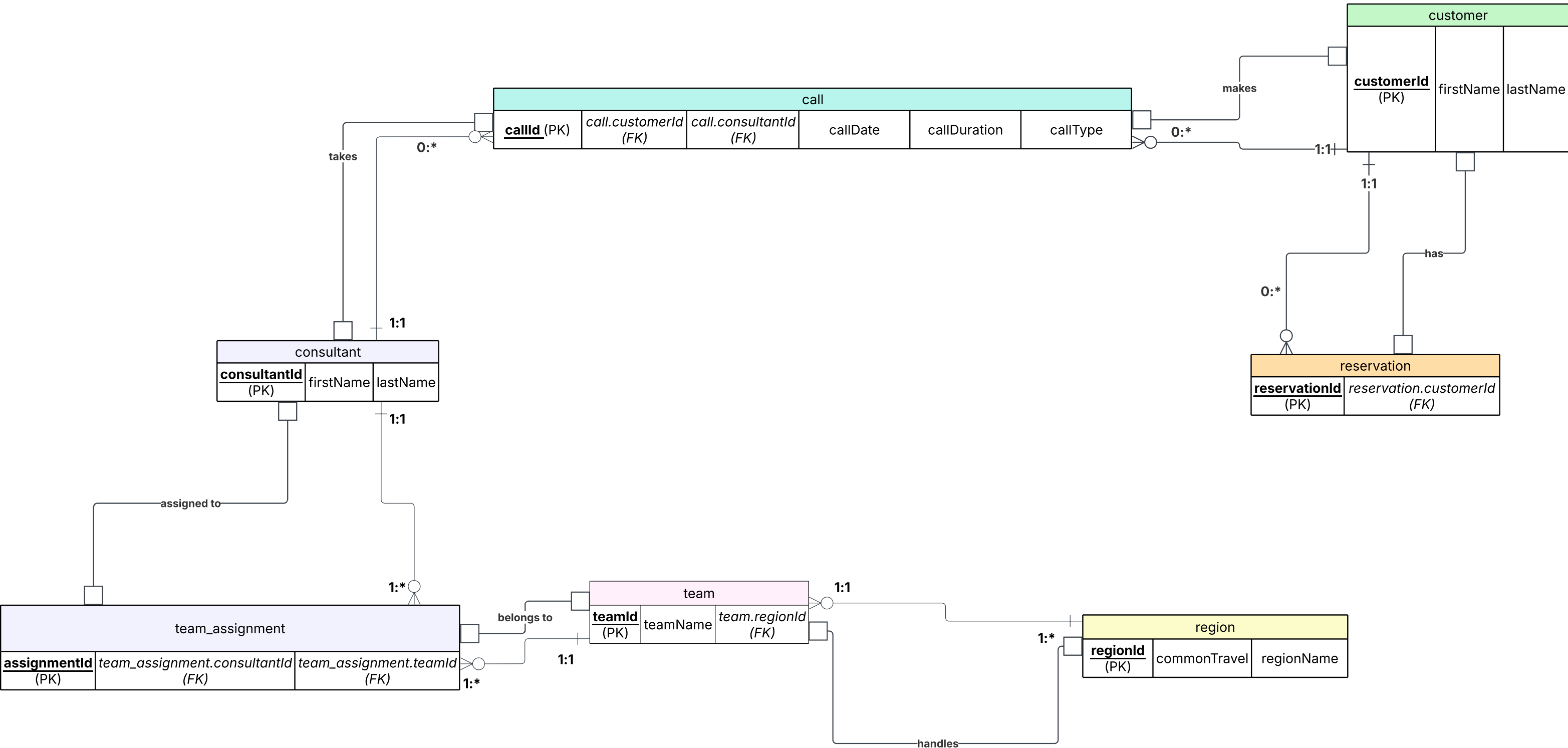


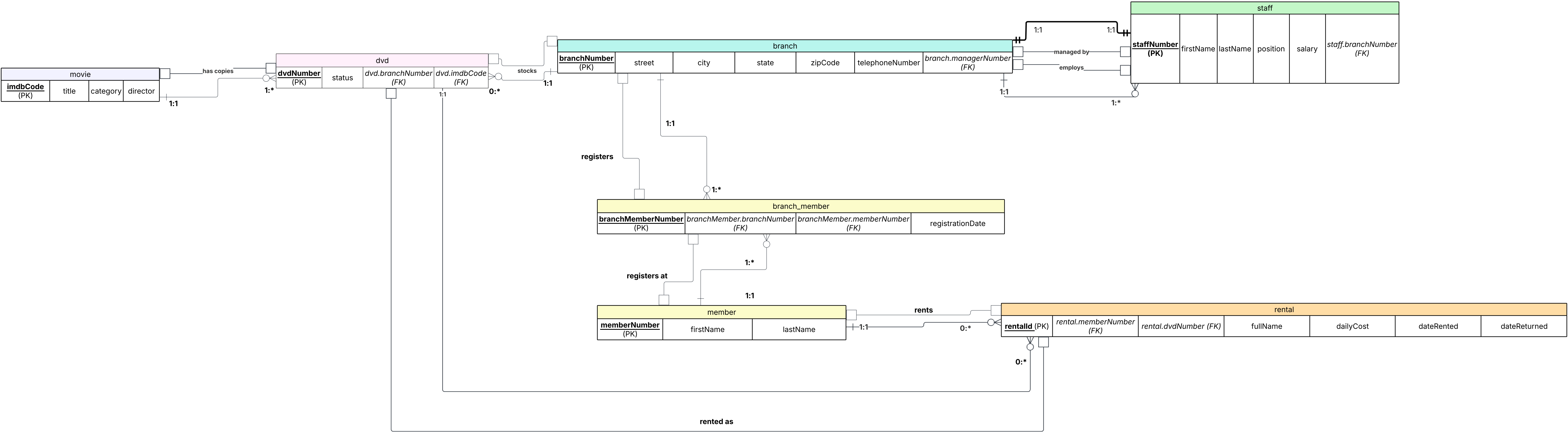
Travel Consulting Business ERD



ASSUMPTIONS

- Each team handles exactly one region at a time, and a region may have multiple teams assigned to it
- Consultants can be on multiple teams simultaneously --> M:N via team_assignment junction table
- "call" captures callType (new need vs. existing reservation), callDate, and callDuration for statistics.
- callDuration is recorded in minutes

DVD Business ERD



ASSUMPTIONS

- A manager is a member of staff, so managerNumber FK on the branch table points to staffNumber in the staff table.
--> This means two relationship lines exist between branch and staff: "employs" (1:M, a branch has many staff) and "managed by" (1:1, a branch has exactly one manager at any given time).
- Staff work at only one branch at a time. Reassignment is handled by updating the branchNumber FK on the staff table, so a junction table is not needed.
- Customers can register as members at multiple branches simultaneously --> creating a many-to-many relationship --> is resolved with the branch_member junction table, which holds its own standalone PK (branchMemberNumber) and two FKs pointing to branch and member
- registrationDate is stored on branch_member rather than member, because a customer registers at each branch at a different time.
- dailyRentalCost is stored on rental rather than on dvd or movie, since the rate is standard per branch and could change over time. Storing it on rental captures the rate at the time of the transaction.
- The maximum of 10 DVDs rented at one time is a business rule enforced at the application level, not something modeled in the ERD.