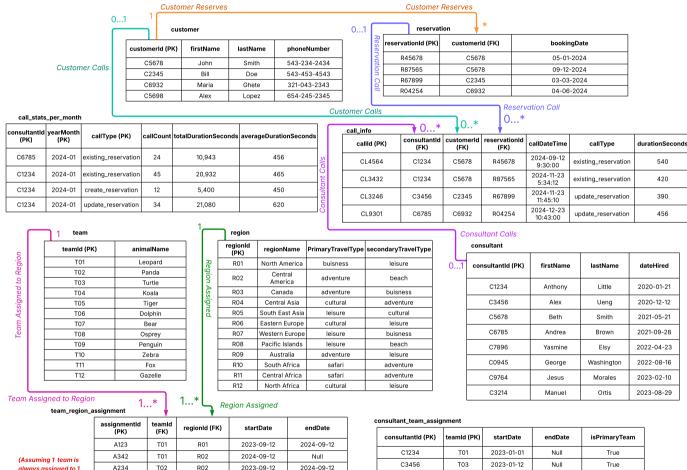
Travel Consulting Company ERD

Assumptions include:

A team can be assigned to at most one region at at time. Regions can have zero teams assigned to them. A consultant can be assigned to more than one team. No overlapping assingment rows for the same consultantid, teamid pair. A reservation belongs to exactly one customer. A customer does not need to have a reservation. Every call has exactly one consultant.



(Assuming 1 team is always assinged to 1 region, exactly one row per team has endDate = Null meaning that team is still actively working on that region)

(PK)	(FK)	regionId (FK)	startDate	endDate
A123	T01	R01	2023-09-12	2024-09-12
A342	T01	R02	2024-09-12	Null
A234	T02	R02	2023-09-12	2024-09-12
A453	T02	R01	2024-09-12	Null
A321	T03	R03	2023-05-05	Null
A964	T04	R08	2023-12-01	Null
A432	T05	R04	2023-09-21	Null
A454	T06	R07	2023-11-08	Nulli
A604	T07	R06	2024-01-12	Null
A942	T08	R05	2024-03-12	Null
A921	T09	R09	2024-04-11	Null
A093	T10	R11	2024-01-13	Null
A243	T11	R12	2024-04-23	Null
A345	T12	T10	2024-09-10	Null

on out and county of the count							
consultantid (PK)	teamld (PK)	startDate	endDate	isPrimaryTeam			
C1234	T01	2023-01-01	Null	True			
C3456	T03	2023-01-12	Null	True			
C5678	T02	2023-08-16	Null	True			
C6785	T04	2023-09-10	Null	True			
C7896	T05	2024-04-12	Null	True			
C0945	T06	2023-08-12	2023-09-08	False			
C0945	T07	2023-09-08	Null	True			
C9764	T06	2023-01-23	2023-01-30	False			
C9764	T07	2023-01-30	2023-04-23	False			
C9764	T08	2024-04-03	Null	True			
C3214	T11	2023-07-13	2024-01-21	False			
C3214	T12	2024-01-21	Null	True			

DVD Rental Company (Assumptions are noted in boxes throughout the table) manager_assignment and staff_assignment record history of assignment. If we recorded only active branch assignment the At most one active relationships associated would be 1 to 1. assignment (endDate is Null) per staff member. branch employs 0...* branch managed by manager_assignnment 0...* staff_assignment managerAssignmentId managerid branchid assignmentld branchid startDate endDate staffld (FK startDate andData (FK) (FK) (PK) (PK) (FK) MA001 MG201 B12345 2023-01-01 2023-03-01 S0314 SA1234 B12345 2023-09-10 2023-10-21 assigned to MA011 B45245 2023-03-01 MG201 Null SA2345 S0314 B45245 2023-10-21 MA002 MG202 B12345 2023-03-01 Null S9432 2022-03-14 SA3456 B12345 2022-01-21 MA003 MG203 B5642 2024-05-12 Null SA0934 S9432 B45245 2023-03-14 2024-01-21 MA004 MG204 B6794 2024-07-13 SA9345 S9432 B5642 2024-01-21 Nul Nul SA5469 S7643 B5642 2023-10-20 Null Exactly one active manager per branch (endDate is Null). SA3424 S3456 B6794 2022-09-19 Null SA3455 S6703 B6794 2023-04-15 Null manager assigned to branch staff branch manager branchid staffld streetAdress city state zipCode phoneNumber firstName lastName nosition salary (PK) managerid firstName lastName (PK) salary (PK) B12345 301 Main St. New York NY 10003 212-555-0932 rental occurs at S0314 Maria Smith clerk 42000 branch stocks MG201 Dana Patel 78000 455 Branch San B45245 CA 415-555-2433 94105 S9432 ΔΙρν associate 48000 Rose St Francisco 80000 MG202 Liam Chen S7643 Andrea associate 50000 Brom 1100 Willow Chicago MG203 76000 B5642 60611 312-555-4356 Sofia Ruiz Dr S3456 supervisor 58000 George Harris MG204 Peter Niemier 74000 40000 B6794 78 Ocean Rd. Miami FL 33139 305-555-9234 S6703 Bill clerk Morris 0...* 0...* membership at 10.... rental rentalld dvdNumber * member_branch memberld branchid dailyRentalCost rentalDate returnDate (PK) (FK) (FK) (FK) branchid dateRegistered At most 10 active rentals RL001 D8714 MR1005 B6794 3 99 2024-12-12 Null (PK) DVD (return date is Null) per MB1001 B9854 2024-01-12 RL002 D9074 B45245 MB1004 2.50 2024-12-24 Null member. MB1002 B5642 2023-01-09 RL003 D8545 MB1003 B12345 4.50 2023-04-05 2023-04-06 RL004 D6543 MB1001 B9854 2.99 2023-06-07 2023-06-08 MB1003 B12345 2024-12-12 RL005 MB1001 B9854 4.99 2023-10-11 2023-10-21 MB1004 B45245 2023-10-23 D0923 RL006 D0923 MB1002 B9854 4.99 2023-10-22 2023-10-30 MB1002 B9854 2023-09-06 MB1005 B6794 2023-04-23 copies of movie on dvd Members can register at multiple movie 1 0...* branches Categories 0...* registered at dvd are stored in imbdCode title category director member (PK) movie table dvdNumber imbdCode branchld status and restricted (FK) memberID antasti firstName lastName address phoneNumber IMD006 Children Wes Anderson (PK) to a fixed list Mr. Fox D8714 IMD006 B6794 available {Action, 200 E. 13th St. Damien lala MB1001 Jeff White 212-555-3242 IMD007 Drama D9074 IMD006 B6794 rented New York, NY Children. Land Chazelle 12 W. 10th St. New Drama D8545 IMD006 B45245 available IMB008 Wes Craven Scream Horror MB1002 Athena Mortiz 212-555-6743 Horror, SciFi, York, NY D6543 IMD007 B12345 rented Lana & Lilly IMB001 SciFi 12 5th Ave. New Drama). 212-555-8975 Matrix Wachowski MB1003 Bethany Frankel D3267 IMBOOS B9854 rented York, NY D0923 IMB001 B9854 available IMB009 Parasite Drama Bong Joon-ho 564 Houston St. MB1004 Alix Rlue 212-555-0756 New York, NY Statis is a controlled field with values 45 Meadow Ln. MB1005 Matt 415-555-3212 **DVD** rented {available, rented, maintenance, lost} San Francisco, CA 56 Grove St. San MB1006 415-555-2234 Scarlett Saporro Francisco, CA member rents

32 Main St.

Chigaco, IL

312-555-7805

MB1007

Amelia

Leone