Assumptions

1. \*Single User Role per Account\*

– Every row in \*USER\* carries exactly one Role (Traveler, TourOperator or Admin). A “TourOperator” account is always also a valid “ServiceProvider” (via the LicenseNo link).

2. \*Booking → Payment → Ticket Flow\*

– We assume \*every\* confirmed \*BOOKING\* must have at least one \*PAYMENT\* before any \*TICKET\* is issued.

– A booking’s Status flips from “Pending”→“Confirmed” when Payment.Status = 'Paid'.

3. \*Cancellation Window & Refund Policy\*

– Cancellations in \*CANCELLATION\* can only be requested up to X days before Trip.StartDate (e.g. 7 days).

– The refundable amount (in \*REFUND\*) is computed by the business logic (e.g. 80% if >7 days, 50% if 3–7 days, 0% if <3 days).

4. \*Ratings Scales & Moderation\*

– Review.Rating is on a 1–5 integer scale.

– Only users who have a \*BOOKING\* with Status = 'Completed' and a valid TicketID can leave a review.

– Admins will clear a review’s ApproveStatus within 48 hrs.

5. \*Trip Capacity & Group Size\*

– Trip.Capacity denotes the maximum \*total\* seats or slots.

– Bookings.GroupSize must be ≤ the trip’s remaining capacity at booking time.

6. \*Service Assignment Acceptance\*

– Operators can assign multiple providers per trip via \*TripServiceAssignment\*, but a provider must respond within 24 hrs (or the assignment auto‑expires).

– A Trip is only “Ready to Launch” once \*all\* required services (at least one hotel + one transport + one guide if required) are AssignmentStatus = 'Accepted'.

7. \*Trip Categories & Search\*

– The domain of Category.Name is a fixed set {Adventure, Cultural, Leisure, Wildlife, Wellness, …}.

– In the UI, users can filter on one or more categories, which drives the M:N lookups in \*TRIP\_CATEGORY\*.

8. \*Location Reuse\*

– \*LOCATION\* rows are globally unique places. Multiple trips and service providers “LocateAt” the same LocationID when they operate in a city.

9. \*Multi‑valued Attributes\*

– Traveler.Preference values are drawn from a small enumerated list (e.g. “Beach”, “Hiking”, “Historical”).

– Guide.Language entries use ISO 639‑1 codes (e.g. “en”, “es”, “fr”) for consistency and searchability.

10. \*Derived Fields Omitted\*

– We dropped all the dotted ovals (Score, Revenue, OccupancyRate, AvgRating, OnTimePerformance) — these are computed on the fly via reporting queries, not stored in the transactional schema.