



# Trip Planner

## Relational Schema

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## Designed by

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# Train

- **Train**(train\_id, train\_name)
  - Primary Key :
    - train\_id
  - Foreign Key :
    - None
- **TrainDepartureTime**(train\_id, source, departure\_time)
  - Primary Key :
    - {train\_id, source}
  - Foreign Key :
    - train\_id from table **Train** as train\_id
    - city\_name from table **City** as source
- **TrainReservation**(train\_id, class, source, destination, departure\_time, fare, train\_status, no\_of\_seats)
  - Primary Key :
    - {train\_id, class, source, destination, departure\_time}
  - Foreign Key :
    - {train\_id, source} from table **TrainDepartureTime** as {trainId, source}
    - city\_name from table **City** as destination
- **TrainJourneyHours**(train\_id, source, destination, journey\_hours)
  - Primary Key :
    - {train\_id, source, destination}
  - Foreign Key :
    - {train\_id, source} from table **TrainDepartureTime** as {train\_id, source}
    - city\_name from table **City** as destination



# Cab

- **CabType**(cab\_type)
  - Primary Key :
    - cab\_type
  - Foreign Key :
    - None
- **CabService**(cab\_service\_id, provider\_name, contact\_no, rating)
  - Primary Key :
    - cab\_service\_id
  - Foreign Key :
    - None
- **CabServiceInACity**(cab\_service\_id, city\_name)
  - Primary Key :
    - {cab\_service\_id, city\_name}
  - Foreign Key :
    - cab\_service\_id from table **CabService** as cab\_service\_id
    - city\_name from table **City** as city\_name
- **Cabs**(cab\_service\_id, city\_name, cab\_type, cost\_per\_day, total\_available\_cabs)
  - Primary Key :
    - {cab\_service\_id, city\_name, cab\_type}
  - Foreign Key :
    - {cab\_service\_id, city\_name} from table **CabServiceInACity** as {cab\_service\_id, city\_name}
    - cab\_type from table **CabType** as cab\_type



## Bus

- **Bus**(bus\_id, bus\_service\_provider, is\_ac, rating)
  - Primary Key :
    - bus\_id
  - Foreign Key :
    - None
- **BusDepartureTime**(bus\_id, source, departure\_date, time\_of\_departure)
  - Primary Key :
    - {bus\_id, source, departure\_date}
  - Foreign Key :
    - bus\_id from table **Bus** as bus\_id
    - city\_name from table **City** as source
- **BusJourneyHours**(bus\_id, source, destination, departure\_date, journey\_hours)
  - Primary Key :
    - {bus\_id, source, destination, departure\_date}
  - Foreign Key :
    - {bus\_id, source, departure\_date} from table **BusDepartureTime** as {bus\_id, source, departure\_date}
    - city\_name from table **City** as destination
- **BusReservation**(bus\_id, source, destination, departure\_date, seat\_type, cost, total\_available\_seats)
  - Primary Key :
    - {bus\_id, source, destination, departure\_date, seat\_type}

- Foreign Key :
  - {bus\_id, source, departure\_date} from table **BusDepartureTime** as {bus\_id, source, departure\_date}
  - city\_name from table **City** as destination



## City

- **City**(city\_name)
  - Primary Key :
    - city\_name
  - Foreign Key :
    - None
- **NearByCities**(current\_city, nearby\_city)
  - Primary Key :
    - {current\_city, nearby\_city}
  - Foreign Key :
    - city\_name from table **City** as current \_city
    - city\_name from table **City** as nearby\_city



## Locality

- **Locality**(locality\_id, locality\_name, city\_name)
  - Primary Key :
    - locality\_id
  - Foreign Key :
    - city\_name from table **City** as city\_name



## Place to visit

- **PlacesToVisit**(place\_name, locality\_id, place\_type, description\_of\_the\_place, street\_address, rating, avg\_cost\_per\_person)
  - Primary Key :
    - {place\_name, locality\_id}
  - Foreign Key :
    - locality\_id from table **Locality** as locality\_id



## Hotels

- **Hotel**(hotel\_name, locality\_id, ratings, street\_address, is\_room\_service, contact\_no)
  - Primary Key :
    - {hotel\_name, locality\_id}
  - Foreign Key :
    - locality\_id from table **Locality** as locality\_id
- **HotelReservation**(hotel\_name, locality\_id, date\_of\_availability, room\_type, total\_available\_rooms, cost)
  - Primary Key :
    - {hotel\_name, locality\_id, date\_of\_availability, room\_type}
  - Foreign Key :
    - {hotel\_name, locality\_id} from table **Hotels** as {hotel\_name, locality\_id}
    - room\_type from table **TypeOfRoom** as room\_type

- **TypeOfRoom**(room\_type, max\_accomodation)
  - Primary Key :
    - room\_type
  - Foreign Key :
    - None



## Restaurants

- **Restaurants**(restaurant\_name, locality\_id, restaurant\_type, rating, street\_address, avg\_cost\_per\_person)
  - Primary Key :
    - {restaurant\_name, locality\_id}
  - Foreign Key :
    - locality\_id from table **Locality** as locality\_id