

Bus Station Database requirements

These are the requirements for a bus station, where users can book tickets(either an economy ticket or a VIP ticket).

- A **Person** in the system is identified by ID,name(FirstName and LastName), birthdate,age,email, password,mobile no.
- Person could be one of two types: either a **USER** or a **DRIVER** But not both.
- For **USER** it's important to record their ID.
- For **DRIVER** it's important to record their driving license type.
- **Ticket** could be one of two types(**economy** and **VIP**) both tickets have ID, price, status, departure time, expiry date and activate date.
- Where **economy** has discount. However, **VIP** has meals.
- Each **BUS** has an id and a number.
- Each **ROUTE** has an id, pick-up point, arrival point, and checkpoint(which could be many checkpoints).
- Each user can be a parent to many users(childs), and each user can have only one user(parent),Each user may and may not be a parent, And each user may and may not have a parent.
- Each User can book one or more tickets, and each ticket can be booked by one user only. Each user may and may not book any tickets. And not all tickets must be booked.
- Each ticket belongs to only one bus, and each ticket must belong to a bus. For each belongs to process it is important

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to record the itinerary. Each bus is belonged to many tickets. And not all buses must be belonged to a ticket.

- Each driver can drive many buses, and each bus can be driven by one driver. Each driver may or may not drive a bus. And all buses have to be driven.
- Each bus travel through one route only, and each route can be travelled through by many buses. Each route must be traveled through by a bus. And not all buses have to travel through routes.

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