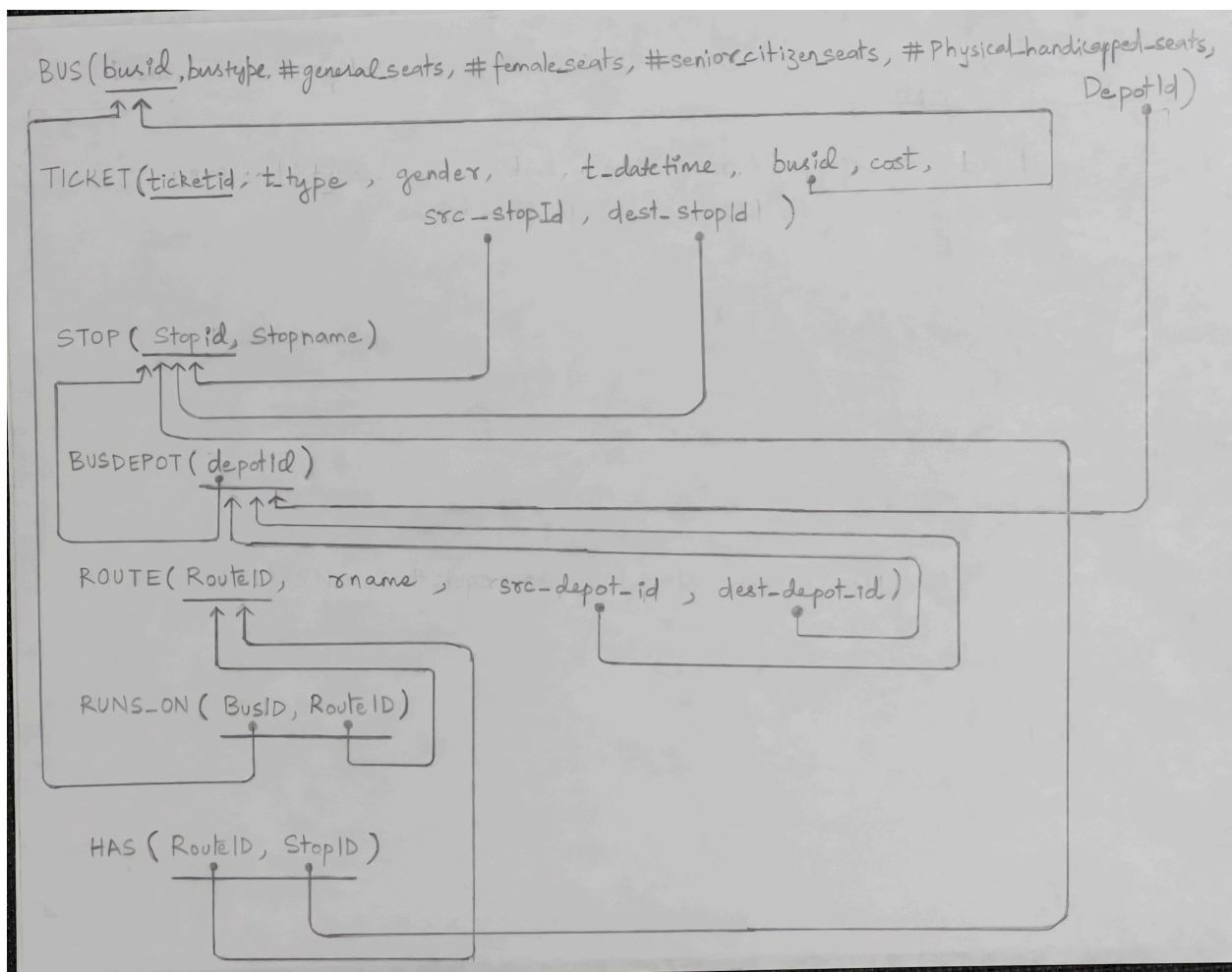# Phase 3 - Mapping To Relations - Revised

## Mapped Relations

Primary keys in a relation are identified by underline and foreign keys are identified by a dot with referential arc pointing to primary key from other relation.

## BUS

**Primary Key :** BusID

**Candidate Key :** BusID

**Functional Dependencies :**

BusID —> {bustype, #general_seats, #female_seats, #senior_citizen_seats, #physical_handicapped_seats, DepotID}

bustype —> {#general_seats, #female_seats, #senior_citizen_seats, #physical_handicapped_seats}

## TICKET

**Primary Key :** ticketid

**Candidate Key :** ticketid

**Functional Dependencies :**

ticketid —> {cost, t_type, gender, t_datetime, busId, src_stop_Id, dest_stopId}

## ROUTE

**Primary Key :** RouteID

**Candidate Key :** RouteID, rname

**Functional Dependencies :**

RouteID —> {rname, src_depot_id, dest_depot_id}

rname —> {RouteID, src_depot_id, dest_depot_id}

### STOP

**Primary Key :** StopID

**Candidate Key :** StopID, Stopname

**Functional Dependencies :**

StopID —> Stopname

Stopname —> StopID

### BUS DEPOT

**Primary Key :** DepotID

**Candidate Key :** DepotID

**Functional Dependencies :** None

### RUNS_ON

**Primary Key :** {BusID, RouteID}

**Candidate Key :** {BusID, RouteID}

**Functional Dependencies :** None

### Route_HAS_Stops

**Primary Key :** {RouteID,StopID}

**Candidate Key :** {RouteID,StopID}

**Functional Dependencies :** None

## Team 15 Members:

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