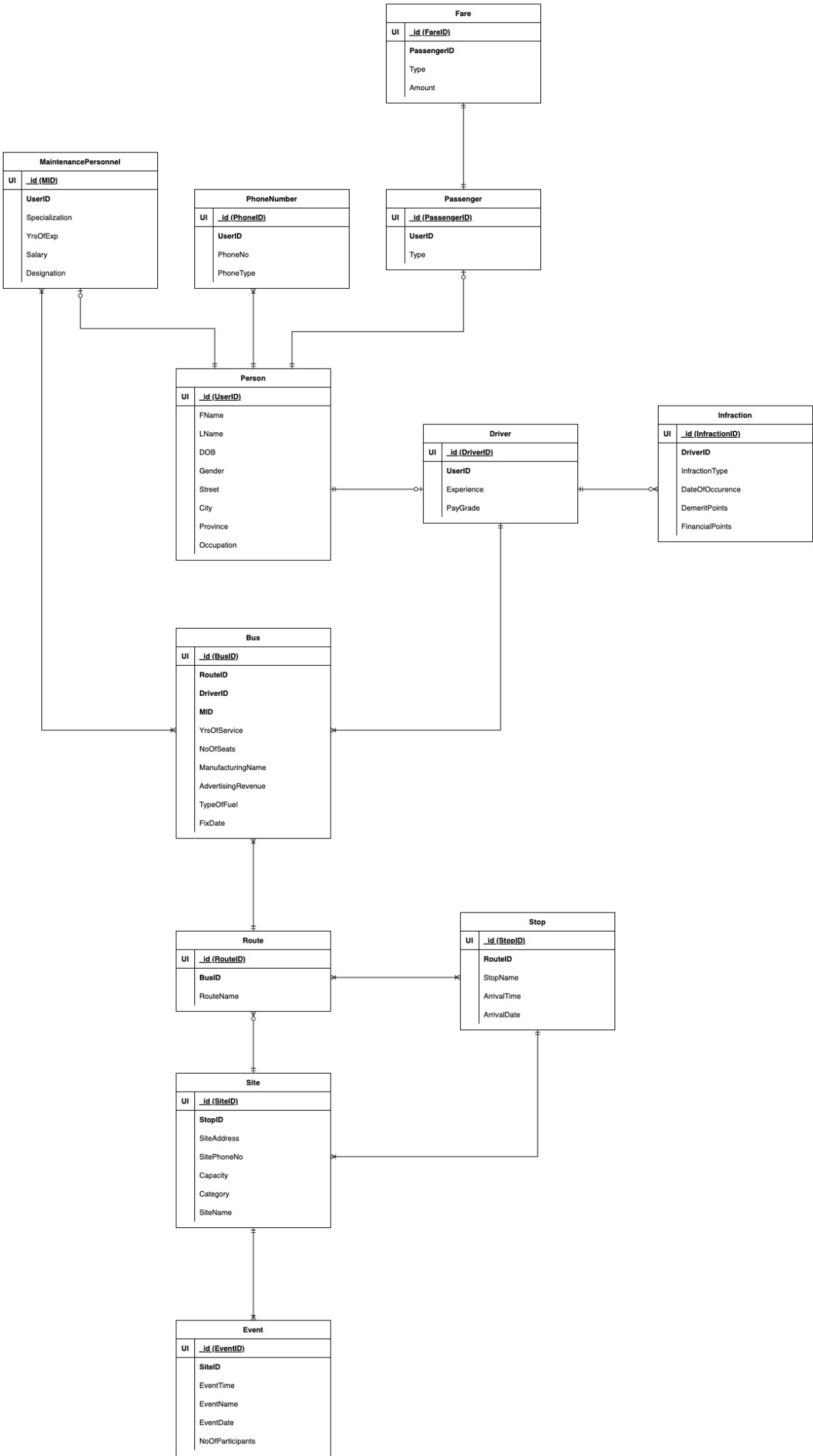


HSR ERD - NoSQL



Siddharth Bahekar – 002417718 – DDL for NoSQL

// Person Collection with Schema Validation

```
db.createCollection("Person", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["UserID", "FName", "LName"],
      properties: {
        UserID: { bsonType: "string" },
        FName: { bsonType: "string" },
        LName: { bsonType: "string" },
        DOB: { bsonType: "date" },
        Gender: { bsonType: "string" },
        Street: { bsonType: "string" },
        City: { bsonType: "string" },
        Province: { bsonType: "string" },
        Occupation: { bsonType: "string" }
      }
    }
  }
});
```

// PhoneNumber Collection

```
db.createCollection("PhoneNumber", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["PhoneID", "UserID", "PhoneNo"],
      properties: {
        PhoneID: { bsonType: "string" },
        UserID: { bsonType: "string" },
        PhoneNo: { bsonType: "string" },
        PhoneType: { bsonType: "string" }
      }
    }
  }
});
```

```
});
```

```
// Passenger Collection
```

```
db.createCollection("Passenger", {  
  validator: {  
    $jsonSchema: {  
      bsonType: "object",  
      required: ["PassengerID", "UserID"],  
      properties: {  
        PassengerID: { bsonType: "string" },  
        UserID: { bsonType: "string" },  
        Type: { bsonType: "string" }  
      }  
    }  
  }  
});
```

```
// Fare Collection
```

```
db.createCollection("Fare", {  
  validator: {  
    $jsonSchema: {  
      bsonType: "object",  
      required: ["FareID", "PassengerID"],  
      properties: {  
        FareID: { bsonType: "string" },  
        PassengerID: { bsonType: "string" },  
        Amount: { bsonType: "double" }  
      }  
    }  
  }  
});
```

```
// Driver Collection
```

```
db.createCollection("Driver", {  
  validator: {
```

```
$jsonSchema:{
  bsonType:"object",
  required:["DriverID","UserID"],
  properties:{
    DriverID:{bsonType:"string"},
    UserID:{bsonType:"string"},
    Experience:{bsonType:"int"},
    PayRate:{bsonType:"double"}
  }
}
});
```

```
// MaintenancePersonnel Collection
db.createCollection("MaintenancePersonnel",{
  validator:{
    $jsonSchema:{
      bsonType:"object",
      required:["MPID","UserID"],
      properties:{
        MPID:{bsonType:"string"},
        UserID:{bsonType:"string"},
        Specialization:{bsonType:"string"},
        YrsOfExp:{bsonType:"int"},
        Salary:{bsonType:"double"},
        Designation:{bsonType:"string"}
      }
    }
  }
});
```

```
// Infraction Collection
db.createCollection("Infraction",{
  validator:{
    $jsonSchema:{
      bsonType:"object",
```

```

    required:["InfractionId","DriverId"],
    properties:{
      InfractionId:{bsonType:"string"},
      DriverId:{bsonType:"string"},
      InfractionType:{bsonType:"string"},
      DateOfOccurrence:{bsonType:"date"},
      DemeritPoints:{bsonType:"int"},
      FinancialPenalty:{bsonType:"double"}
    }
  }
}
});

```

// Bus Collection

```

db.createCollection("Bus",{
  validator:{
    $jsonSchema:{
      bsonType:"object",
      required:["BusId","RouteId"],
      properties:{
        BusId:{bsonType:"string"},
        RouteId:{bsonType:"string"},
        NoOfSeats:{bsonType:"int"},
        YrsOfService:{bsonType:"int"},
        NoOfAccidents:{bsonType:"int"},
        ManufacturerName:{bsonType:"string"},
        TypeOfFuel:{bsonType:"string"},
        FixDate:{bsonType:"date"}
      }
    }
  }
});

```

// Route Collection

```

db.createCollection("Route",{
  validator:{

```

```
$jsonSchema:{  
  bsonType : "object",  
  required: ["RouteId"],  
  properties: {  
    RouteId : {bsonType : "string"},  
    RouteName : {bsonType : "string"}  
  }  
}  
}  
});
```

```
// Stop Collection  
db.createCollection("Stop",{  
  validator:{  
    $jsonSchema:{  
      bsonType : "object",  
      required: ["StopId", "RouteId"],  
      properties: {  
        StopId : {bsonType : "string"},  
        RouteId : {bsonType : "string"},  
        StopName : {bsonType : "string"},  
        ArrivalTime : {bsonType : "date"},  
        ArrivalDate : {bsonType : "date"}  
      }  
    }  
  }  
});
```

```
// Site Collection  
db.createCollection("Site",{  
  validator:{  
    $jsonSchema:{  
      bsonType : "object",  
      required: ["SiteId", "StopId"],  
      properties: {  
        SiteId: {bsonType: "string"},
```

```
        StopId:{bsonType:"string"},
        SiteAddress:{bsonType:"string"},
        Capacity:{bsonType:"int"},
        Category:{bsonType:"string"},
        SiteName:{bsonType:"string"}
    }
}
});
```

```
// Event Collection
db.createCollection("Event",{
  validator:{
    $jsonSchema:{
      bsonType:"object",
      required:["EventId","SiteId"],
      properties:{
        EventId:{bsonType:"string"},
        SiteId:{bsonType:"string"},
        EventName:{bsonType:"string"},
        EventTime:{bsonType:"date"},
        EventCharges:{bsonType:"double"},
        EventDate:{bsonType:"date"}
      }
    }
  }
});
```

