Design Document

GEIDEA Web Portal

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# Entity Relationship Diagram (ERD)

Following entities are used

1. Operational Manager
   1. OperationalManagerID (PK)
   2. Name
2. Regional Manager
   1. RegionalManagerID (PK)
   2. Name
3. Region
   1. RegionID (PK)
   2. Name
   3. RegionalManagerID (FK) //There is only one Regional Manager to a region
4. City
   1. CityID (PK)
   2. Name
   3. RegionID (FK) //Each City belongs to a single Region
5. Zones
   1. ZoneID (PK)
   2. CityID(FK) //Each Zone belongs to a single City
   3. Coordinates //The polygon coordinates representing a particular zone
6. SubZones
   1. SubZoneID (PK)
   2. ZoneID (FK)
   3. Coordinates //The polygon coordinates representing a particular subzone
7. TeamLeader
   1. TeamLeaderID (PK)
   2. Name
8. Technician
   1. TechnicianID (PK)
   2. Name
   3. TeamLeaderID (FK) //Each technician has a single team leader
   4. CurrentLocationOfTechnician
9. Technician\_X\_SubZone //Each technician can serve one or more sub zones.
   1. TechnicianID (FK) //One subzone can be served by more than one technician
   2. SubZoneID (FK)
10. Terminal
    1. TerminalID (PK)
    2. SubZoneID (FK)
    3. MerchantBranchID (FK)
    4. Longitude
    5. Latitude
11. Merchant
    1. MerchantID (PK)
    2. Name
12. MerchantBranch
    1. MerchantBranchID (PK)
    2. MerchantID (FK)
13. Ticket
    1. TicketID (PK)
    2. TerminalID (FK) //Each ticket belongs to a single Terminal
    3. TechnicianID (FK) //Each ticket will be served by a single technician