CSCI312 Big Data Management

Assignment 2

Report

Task 2

Fact Entity

MEDICAL-SERVICE

Fact table Measure

- MEDICAL-SERVICE
 - serviceType
 - description
 - date
 - spentTime
 - cost
- The total number of medical services can be derived by using the aggregate function count(*) and grouping by the respective dimensions.
- The total length of medical services can be derived by using the aggregate function sum(spentTime) and grouping by the respective dimensions.
- The average length of medical services can be derived by using the aggregate function sum(spentTime) and grouping by the respective dimensions.
- The total number of doctors/ paramedics/nurses involved in medical services can be derived by using aggregate count(role) and grouping by the respective dimensions.
- The average time spent on medical services per year, month, day can be derived by using aggregate function avg(spentTime) and grouping by Date.
- The total costs of medical services can be derived by using aggregate function sum(cost) and grouping by the respective dimensions.

Fact table Dimension

- MEDICAL-SERVICE
 - MEDICAL-WORKER
 - ADMIN-WORKER
 - PATIENT
 - MEDICAL-FACILIITIES
 - TIME

Hierarchy

JOB

- MEDICAL-WORKER
 - ROLE

CALANDER

- TIME
 - YEAR
 - MONTH
 - DAY

LOCATION

- ADDRESS
 - COUNTRY
 - CITY
 - STREET
 - ZIP
- PATIENT
 - COUNTRY
 - CITY
 - STREET
 - ZIP

- MEDICAL-WORKER
 - COUNTRY
 - CITY
 - STREET
 - ZIP
- ADMIN-WORKER
 - COUNTRY
 - CITY
 - STREET
 - ZIP

ENTITIES DESCRIPTION

- MEDICAL-WORKER
 - staffID
 - name
 - phNumber
- MEDICAL-FACILITIE
 - name
 - Address
 - Specialization
- ASSIGNMENT
 - assignmentID
- ADMIN-WORKER
 - adminID
- CREDENTIAL
 - credentialID
- PATIENT
 - patientID
 - name

phoneNumber

Conceptual schema

