

Star Schema Design: Logical Diagram

CMPINF 2211: Foundations of Cloud Computing

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fact_visit_details
patient_id int (PK, FK1)
provider_id int (PK, FK2)
date_id int (PK, FK3)
visit_count int
symptom_count int
lab_count int
procedure_count int

fact_symptom_details
patient_id int (PK, FK1)
provider_id int (PK, FK2)
date_id int (PK, FK3)
visit_number int (PK)
symptom_id int (FK4)
symptom_frequency decimal

fact_lab_details
patient_id int (PK, FK1)
provider_id int (PK, FK2)
date_id int (PK, FK3)
visit_number int (PK)
lab_id int (FK4)
lab_frequency decimal

fact_procedure_details
patient_id int (PK, FK1)
provider_id int (PK, FK2)
date_id int (PK, FK3)
visit_number int (PK)
procedure_id int (FK4)
procedure_frequency decimal

fact_diagnosis_details
patient_id int (PK, FK1)
provider_id int (PK, FK2)
date_id int (PK, FK3)
visit_number int (PK)
diagnosis_id int (FK4)
diagnosis_frequency decimal

dim_time
date_id (PK)
date date
day varchar
month varchar
year int
hour int
quarter int

dim_patient
patient_id (PK)
first_name varchar
last_name varchar
gender varchar
dob date

dim_provider
provider_id (PK)
first_name varchar
last_name varchar

dim_symptom
symptom_id (PK)
note varchar

dim_lab
lab_id (PK)
lab_name varchar
cpt_code varchar

dim_procedure
procedure_id (PK)
proc_name varchar
description varchar
icd10_code varchar

dim_diagnosis
diagnosis_id (PK)
diag_name varchar
icd10_code varchar