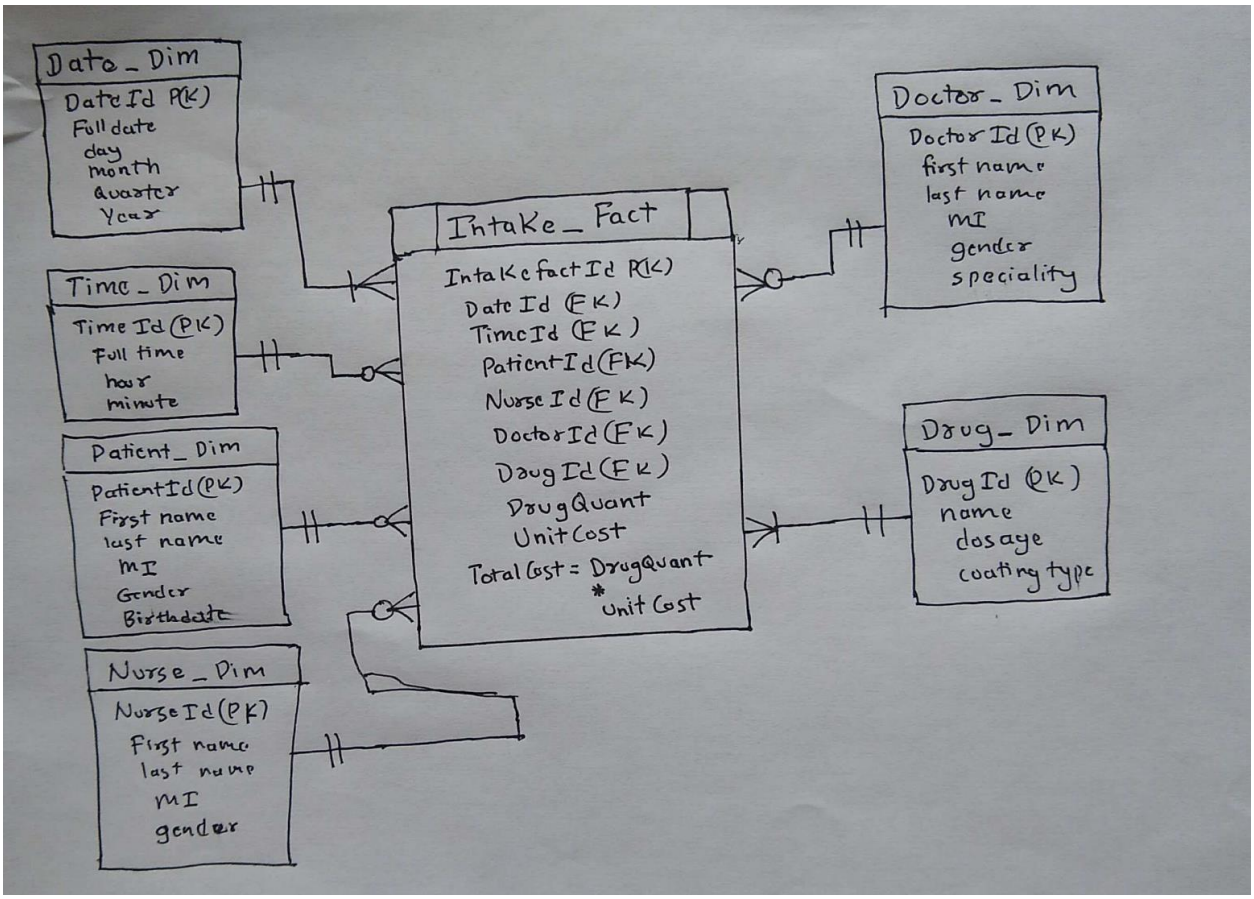
Patient Drug Cost Analysis: Data Warehouse Design



Data Analysis:

1) Neurologists who have prescribed specific drugs in March

```
Select Drug.DrugID, Drug.DrugName, Drug.DrugDosage, Doctor.DoctorID, Doctor.DoctorFname, Doctor.DoctorLname, Doctor.DoctorSpeciality
from Drug
inner join Prescription on Drug.DrugID = Prescription.DrugID
inner join Doctor on Doctor.DoctorID = Prescription.DoctorID
where Doctor.DoctorSpeciality = 'Neurologist' and Prescription.PrescriptDate between '03/01/2017' and '03/31/2017'
order by Doctor.DoctorLname asc, Doctor.DoctorFname asc;
```

2) Quantity of drugs with type ‘Enteric’ consumed in 2021 by female patients

```
select Drug.DrugName from Drug inner join
(select max(DrugQuantity),DrugTaken.DrugID from DrugTaken inner join
DrugIntakeEvent on DrugIntakeEvent.DIEventnumber=DrugTaken.DIEventnumber
inner join Patient on Patient.PatientID = DrugIntakeEvent.PatientID
where DrugIntakeEvent.DIEDate like '%2021%' and Patient.PatientGender = 'Female'
group by DrugTaken.DrugEventNumber) as tf on tf.DrugID = Drug.DrugID
where DrugCoatingType = 'Enteric';
```

3) Sales per drug by doctor who prescribed it

```
select Doctor.DoctorID, Doctor.DoctorFname, Doctor.DoctorLname, Doctor.DoctorSpeciality,
SUM(Drug.DrugUnitCost * Prescription.Quantity) as TotalCostofDrugs from Doctor inner join
Prescription on Doctor.DoctorID = Prescription.DoctorID
inner join Drug on Drug.DrugID = Prescription.DrugID
where is Prescription.PrescriptionNumber is NOT NULL and Prescription.PrescriptDate like '%2020%';
```