

## WEEK-7

# Peer-graded Assignment: Module 11 Assignment

### Problem-1

You should identify insertion, update, and deletion anomalies in the sample rows of the big patient table shown in Table 1.

<u>VisitNo</u>	VisitDate	PatNo	PatAge	PatCity	PatZip	<u>ProvNo</u>	ProvSpecialty	Diagnosis
V10021	2/13/2015	P1	36	DENVER	80217	D1	INTERNIST	EAR INFECTION
V10021	2/13/2015	P1	36	DENVER	80217	D2	NURSE PRACTITIONER	INFLUENZA
V93030	2/20/2015	P3	17	ENGLEWOOD	80113	D2	NURSE PRACTITIONER	PREGNANCY
V82110	2/18/2015	P2	60	BOULDER	85932	D3	CARDIOLOGIST	MURMUR

Table 1.

### Solution 1:

- **Insertion anomaly:**

It is necessary to know a visit and an provider because the combination of VisitNo and ProvNo is the primary key.

- **Update anomaly:**

If we change **ProvSpecialty** of ProvNo D2, two rows must be changed.

- **Deletion anomaly:**

If we delete the provider of D2 in **V10021** , we lost the information about patient **P1** and visit **V10021**