

Homework 2 – Normalization and Database Schema Creation

Dependencies:

1.
 - a. {PatientNum} → {PatientName, PatientAddress, CityStateZip}
 - b. {BillNum} → {BillingDate, DateAdmitted, DateDischarged, DateCharged, Charge, PatientNum, ItemCode}
 - c. {CostCenter} → {CostName}
 - d. {ItemCode} → {Description}
2. Primary Key is { BillNum }

Normalization:First Normal Form

<u>PatientNum</u>	PatientName	PatientAddress	CityStateZip	<u>BillNum</u>	BillingDate	DateAdmitted	DateDischarged	<u>CostCenter</u>	CostName	DateCharged	<u>ItemCode</u>	Description	Charge
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Second Normal Form**Patient** (PatientNum, PatientName, PatientAddress, City, State, Zip)**Bill** (BillNum, BillingDate, DateAdmitted, DateDischarged, Charge, PatientNum)Third Normal Form**Patient** (PatientNum, PatientName, PatientAddress, CityStateZip)**Bill** (BillNum, BillingDate, DateAdmitted, DateDischarged, Charge, PatientNum, ItemCode)**Center** (CostCenter, CostName)**Item** (ItemCode, Description)