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Semester	S.E. Semester IV – Computer Engineering
Subject	Database Management Systems Laboratory.
Lectures Professor In-charge	Prof. Suja Jayachandran
Practicals Professor In-Charge	Prof. Suja Jayachandran
Laboratory number	M312
Student Name	Sahil Patil
Roll Number	22102A0065
Grade	Teacher's Signature
Experiment No:	3
Experiment Title	Mapping ER Diagram to Relational Tables..
Resources / Apparatus Required	Hardware: Software: PC Draw.io
Objectives (Skill Set / Knowledge Tested / Imparted)	3) Modify ER diagram and create their relational tables.

Historical Profile

Peter Chen developed ERDs in the 1970s and published his proposal for entity relationship modeling in a 1976 paper titled "The
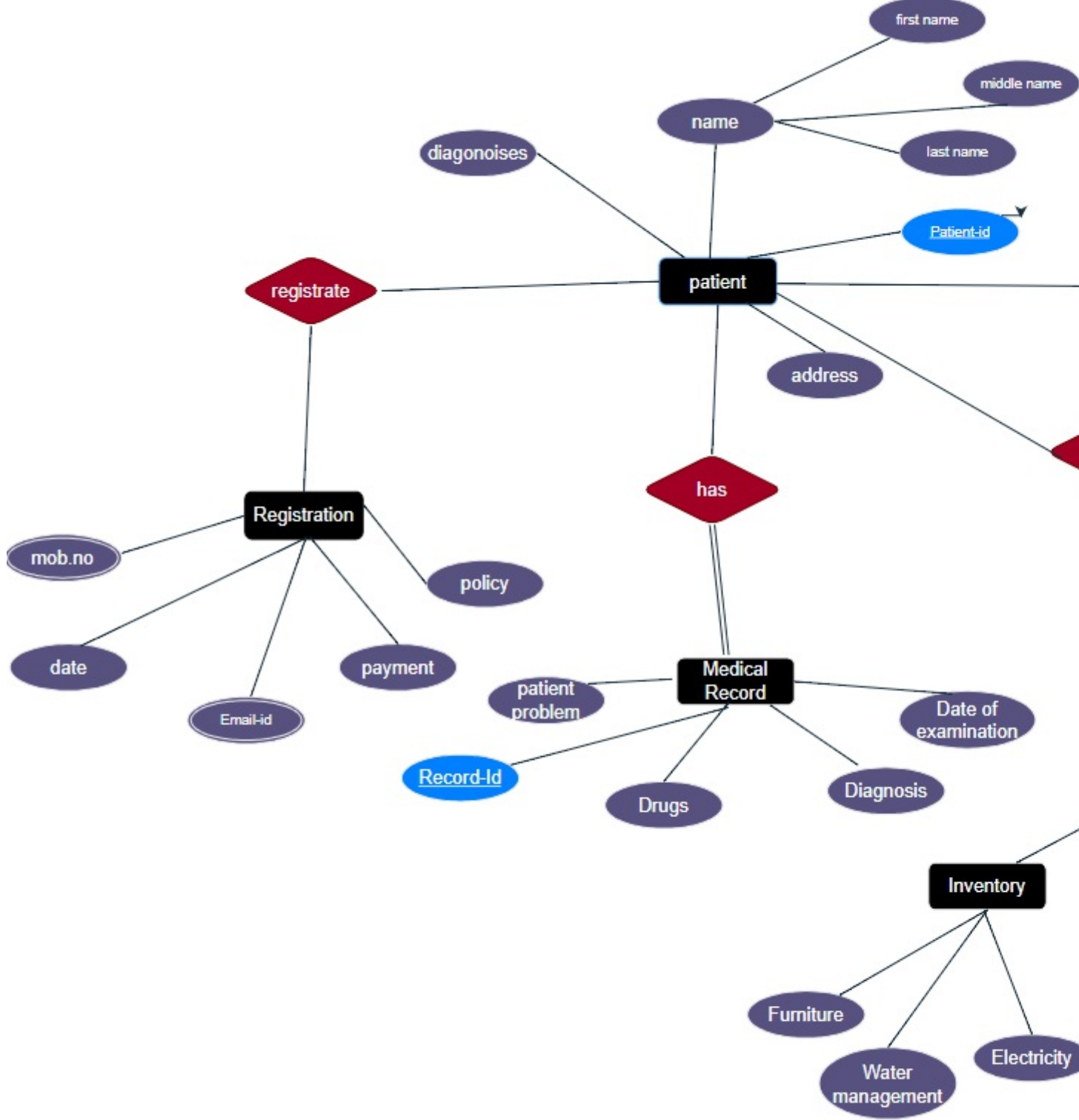
Entity-Relationship Model: Toward a Unified View of Data". Peter Chen was a computer scientist who worked on improving database design.

Theory

Design a database for the bank . Activities that can be proposed involve following data : -

Entity- (Attributes)

1. **PATIENT-**(name, address, patient-id, diagnosis)
2. **REGISTRATION-**(mob-no, date, email-id, payment, policy,
3. **MEDICAL RECORD-**(patient problem, drugs, diagnosis, date of examination, record-id)
4. **INVENTORY-**(furniture, water management, electricity)
5. **HOSPITAL-**(years, city, address, name, id)
6. **DOCTOR-**(qualification, date of joining, salary, Dr-id, Dob,expertise, name)
7. **STAFF-**(staff-id, salary)

ER
Diagram,

Tables

Relational table

* patient

id	First name	middle name	Last name	address

* Registration

payment	policy	date

* Registration

mobile no	Email id

* Medical record

patient problem	Record - id	Drugs	Diagnosis	Date of examination

* Hospital

Id	name	years	city

* Hospital

id	street	area	state

Relational Tables

Customer

C_id	First name	middle name	l...

Customer,

C_id	Mobile No	Emai...

Transcation :

J_id	Type	Amount	Date

Loan :

L_id	Status	Type	C_id.

Account:

Ac_no.	open date	close date	ty

Locker:

L_id	type	opd	cld	f nam

*   Doctor

expertise	D-id	DR.name	dateof joining	Qualifi

*   Inventory

Furniture	Electricity	water management	

Conclusion The ER diagram has been modified according to new requirements and the relational tables have been created success

Real Life
Application

- HOSPITAL MANAGEMENT
- HEALTH AREA
- GOVERNMENT DATABASE