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Medical Records System

Functional Dependencies

Medicine

mid -> name price stock

Disease

diid -> name category

Doctor

did -> name phone_no

phone_no -> name did

Patient

pid -> name complain date_admitted date_discharged birthdate

Tests

tid -> name

Surgeon

sid -> did specialization

did -> sid specialization

Operation

opid -> opname description

Bill

bno -> name bdate payment_mode

Department

dept_id -> name

ENTITY	KEYS	FD's	3NF?
MEDICINE	mid	mid -> name price stock	YES
DISEASE	diid, name	diid -> name category name -> diid category	YES
DOCTOR	did, phoneno	did -> name phone_no phone_no -> name did	YES
PATIENT	pid	pid -> name complain date_admitted date_discharged birthdate	YES
TESTS	tid	tid -> name	YES
SURGEON	sid, did	sid -> did specialization did -> sid specialization	YES
OPERATION	opid, opname	opid -> opname description opname -> opid description	YES
BILL	bno	bno -> name bdate payment_mode	YES
DEPARTMENT	dept_id	dept_id -> name	YES

CONCLUSION :

The above table proves that our entire project's relational schema is in the **Third Normal Form**.