gi posmalization steps -

tirst Noomal form i- Ensure atomic attribute values her each ground Noomal form i- Remove partial dependencies i each non-trey attributes must depend on the whole primary key

Third Normal form - Remove transithe dependences nonkey attrib : depend only on the primary key

candidate leys examples

- · Patient 1- patient id (unique)
- " Policy '- Policy Number (unique)
- e Elaim ; claimid (unique)
- = Hospital :- Hostapitalid (unique)

2.2 SAL Quesies to process 10 prove and brack inswance

atnsest new daim;

MOSPITAL id , claim Number, amount)

NAMES [1001, PN153, 1,101,22,2000

expersone a claim BET Status = 'Approval".

Approval Pakez' 2023-02-01" WHERE Claimid=1001,

SELECT "FROM Claim' WHERE POlicy Number = 'PPU123',

· calculate total approved claims per patient:
serect patientia, sum (Amount), Ms Total Approved

FROM Claim WHERE Stakusz' Approved' GROUP BY -Pakientid; 3 Le mais Transaction Management during concurred claim 1. optimistic concurrency control; UPPATE claim SET status = 'Approved', version = Vession +1 WHERE claim id = ' UNIS -1234' AND SECRUSE' OF PROVIDE AND Version = 3; 2. Pressimistic locking BEGIN SBLECT Status FROM claim where claim-id = unid-1234 2417 C FOR UPPATE; UPBATE · claim set stakus = Approved where claim_id='unid_1234'; COMMIT;" 3. Idempotery & business level compensation Make approval operations idempotent SUBMITTED -> IN -Review -> Approved. 4- isolation revels Use read committed typically 10x REPEAT. ABLE: READ) genne. SERMLIZE it strict . senialitibity . is required 4 Pestorming ERUD operations in Mongoph to Manage claims scords. · Basic Mango DB - CRUD operations has claim records 1a create; db-claims-insext one E& claimid: 10011 Policy pumber = 'Pp123'; Patientid = 11

3241

9/-

7712

Result Benchits and excuted successfully · Retrive temperature readings across out othermostuti · Forth all records of a device in different location db-devices Pata-Create index ("devisid: "1)" Lo cation. · Query out devices in alocation &b-device Daka . (reak Index [{" Location = Location 1d": 13); How indowing Steps db. desices bota-create index [{ "device id" = 1}); Thus the . Where cose is successfully verified "Himstamp" = 8025-01-18108 = 30 .003". 11. Sensors 11. 8 "Temperature": 33-5, "tiremaak version". " 1.2-5" "Status"; " adivice", -1-84: "Appunit " manufacture " : " . " Kime Ocvices", metadodo 1 : { , Location 18 ": 13);