EDGE BU CSE DIGITAL SKILL TRAINING

A project on ERD Diagram (DBMS)

COURSE NAME: DATABASAE

Batch No:01

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Serial No: 05

Date of Submission:08.06.2024

**EDGE**

**Step 1: Entity**

1. Child
2. Parents
3. Payment of child
4. Doctor
5. Nurse
6. Doctor salary
7. Nurse salary
8. Child care center

**Step 2: Attributes and primary key**

1. Child (Child\_id (pk),child\_name,Blood\_group)
2. Parents (Parent\_id(pk),parent\_name,Address,Contact)
3. Payment of child (child\_id,parent\_name,payment\_method,date)
4. Doctor (doctor\_id (pk),Doctor\_name,Duty\_time,contact,Address)
5. Nurse (Nurse\_id,Nurse\_name,contact)
6. Doctor salary (doctor\_id (pk),working\_hours,salary,date)
7. Nurse salary (nurse\_id (pk),working\_hours,salary)
8. Child care center (center\_id (pk),name,room\_no,Address)

**Step 3: ERD relationship**

1. Child - -possess – parents

2. Parents – do – payment of child

3. Child – need – doctor

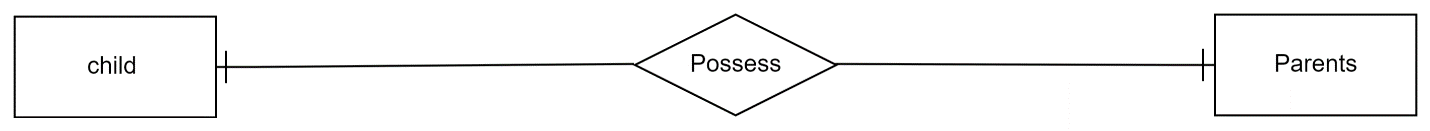
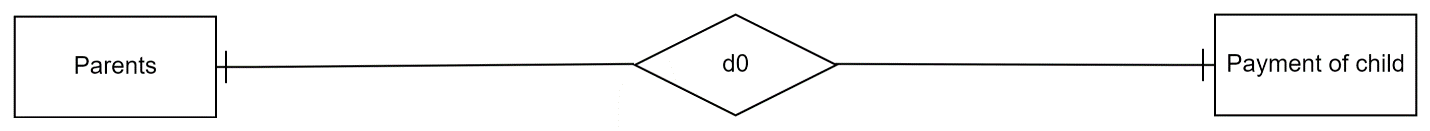
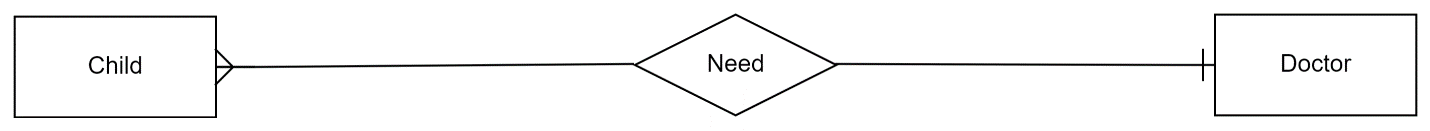
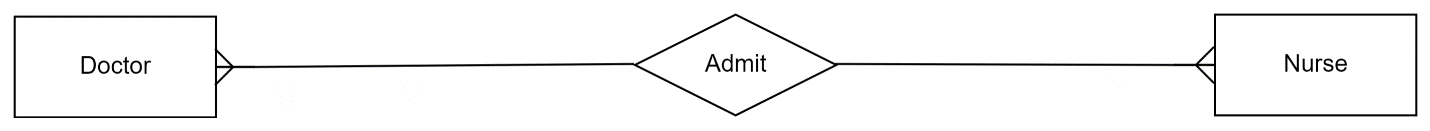
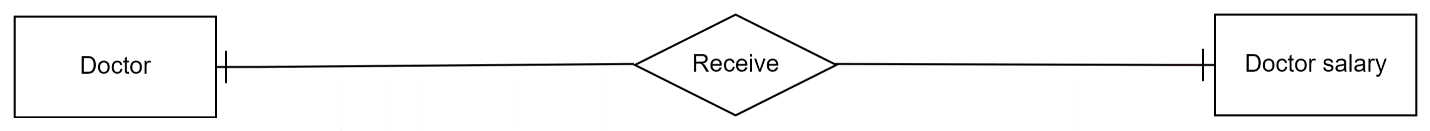
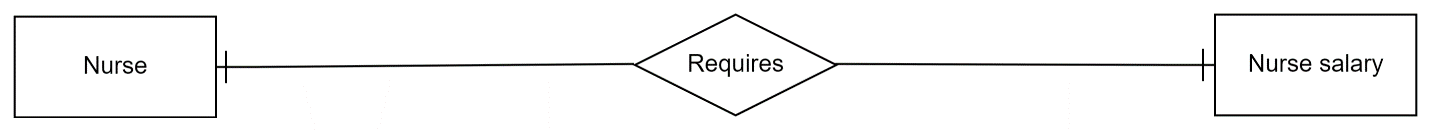
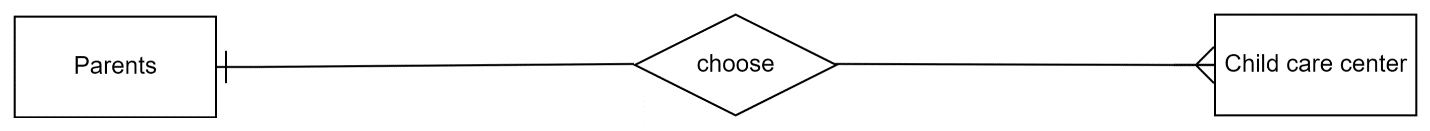
4. Doctor – admit- Nurse

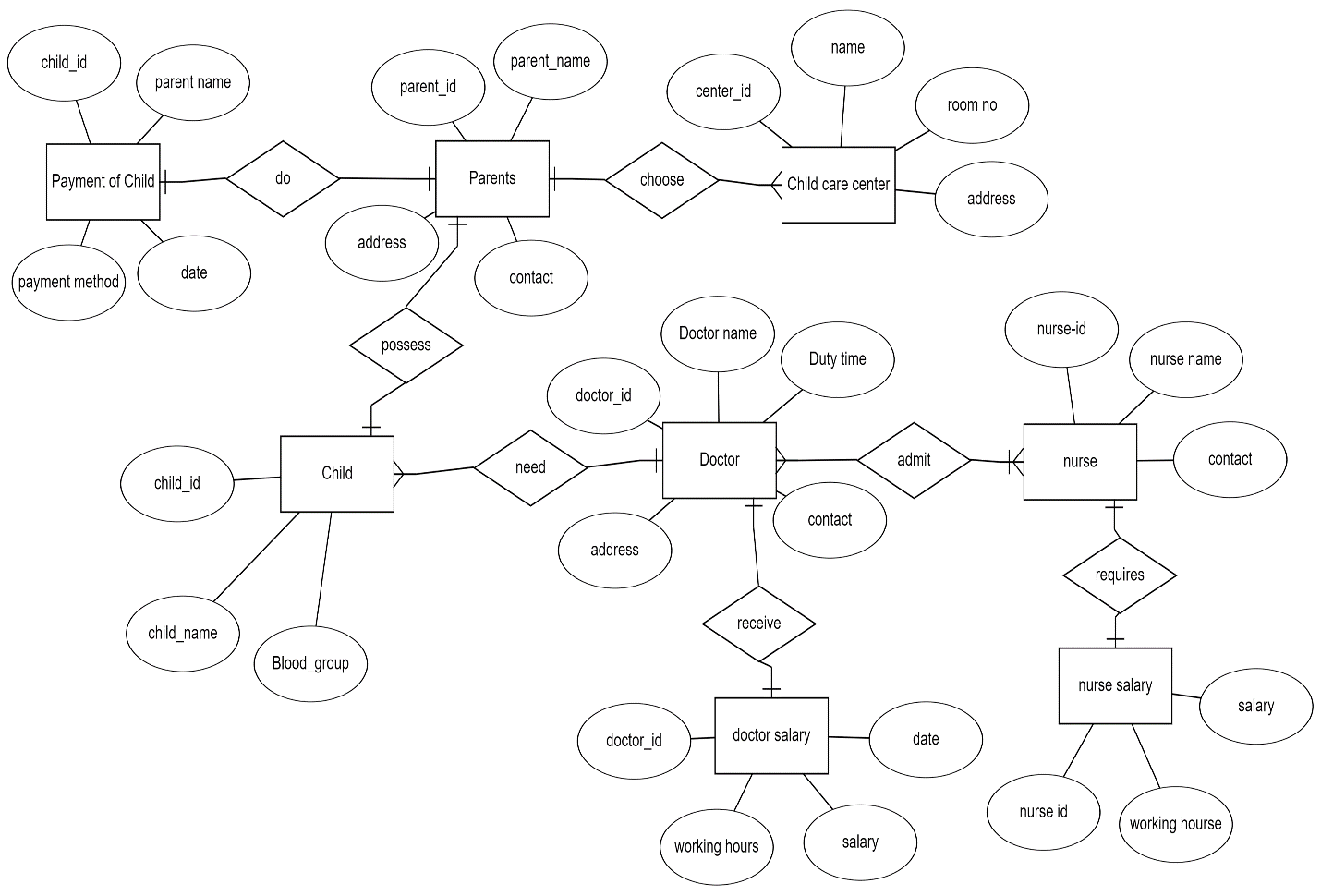
5. Doctor – receive- doctor salary

6. Nurse – Requires – nurse salary

7. Parents – Choose – child care center

**Step 4: Cardinality ratio and participation**

1. Child - -possess – parents
2. Parents – do – payment of child
3. Child – need – doctor
4. Doctor – admit- Nurse
5. Doctor – receive- doctor salary
6. Nurse – Requires – nurse salary
7. Parents – Choose – child care center

**ERD Diagram**

**Reduction to schema**

1. Child (Child\_id (pk),child\_name,parent\_id,Blood\_group,doctor\_id)
2. Parents (Parent\_id(pk),parent\_name,Address,Contact)
3. Payment of child (child\_id,parent\_name,payment\_method,date)
4. Doctor (doctor\_id (pk),Doctor\_name,Duty\_time,contact,Address)
5. Nurse (Nurse\_id,Nurse\_name,doctor\_id,contact)
6. Doctor salary (doctor\_id (pk),working\_hours,salary,date)
7. Nurse salary (nurse\_id (pk),working\_hours,salary)
8. Child care center (center\_id (pk),name,room\_no,Address)
9. Observed child (child\_id,parent\_id,doctor\_id)

