```
Minit | Lname | Address_line1 | Address_line2 | Address_line3 | Emergency_Info | Dob
                 Minit | Lname | Address_line1 | Address_line2 | Address_line3 |
Choose INITIAL_ASSESSMENT, use the primary key of VISIT as foreign key of INITIAL_ASSESSMENT.
        Fname Minit Lname SSN Dep_ID
                   Date A_nurse_id PID A_nurse_id cost Insurence_info online_form
                    Cost | Approval_From_Parent | SP_ID | Approved
This step we use Opition 8B: Multiple relations - subclass rlations only
  PID | Fname | Minit | Lname | Address_line1 | Address_line2 | Address_line3 | Emergency_Info | Dob
                                                                                            Age
                                                                                                    Pay
        Fname | Minit | Lname | Address_line1 | Address_line2 | Address_line3 | Emergency_Info | Dob
                                                                                            Age Copay
        Fname Minit Lname Address_line1 Address_line2 Address_line3 Emergency_Info Dob
                                                                                            Age
        Fname Minit Lname Address_line1 Address_line2 Address_line3 Emergency_Info Dob
 EID Fname Minit Lname SSN Hourly_Wage
```

Team #4

Changes:

Xi He - hexxx992

Jian Wang - wang8635

GuiPeng Xie - xie00111

JunRen Huang - huan1852

2. We divide PATIENT into MINOR and ADULT.

4. We add an attribute Hourly_Wage to INTAKE_CLERK.

7. We add multivalued phone numbers of PATIENT.

6. We make full name and address as composite attributes.

5. We add an attribute Approval_From_Parent to TREATMENT.

1. We move SSN as an attribute of EMPLOYEE which is inherited by subclasses of EMPLOYEE .

3. We add an attribute Online_Form to the relation Record which between VISIT and INTAKE_CLERK.

Step 1

EMPLOYEE

DEPARTMENT DID Dname

VISIT

<u>VID</u>

<u>PID</u>

PARENT/GUARDIAN ParentID Fname

INSURANCE

DIAGONOSIS

TREATMENT

<u>AssementID</u>

Step 2

Step 3

Step 4

EMPLOYEE

<u>EID</u>

VISIT VID

ICD_10-PCS Name

INITIAL_ASSESSMENT

There is no weak entity.

INITIAL_ASSESSMENT AssementID VID

TREATMENT_NURSE TN_EID SSN notes

INITIAL_ASSESSMENT

ICD-10-PCS Name

DIAGNOSIS

TREATMENT

Step 5

Step6

Step 7

Step 8

RELATE

R parentID R PID

PATIENT_PHONE Phone_Number PID

UNINSURED

INSURED <u>PID</u>

MINOR

ADULT

PID

BILLING_DEPARTMENT <u>DID</u> Name

PAYROLL_DEPARTMENT <u>DID</u> Name

INTAKE_DEPARTMENT <u>DID</u> Name

<u>DID</u> Name

IT_DEPARTMENT <u>DID</u> Name

<u>DID</u> Name

INTAKE_CLERK

NURSE

SERVICE_PROVIDER

ADDITIONAL_EMPLOYEE

EID Fname

TREATMENT_NURSE

ASSESSMENT_NURSE

There is no union type

ASSESSMENT_DEPARTMENT

PARENT_CARE_DEPARTMENT

EID Fname Minit Lname SSN

EID Fname Minit Lname SSN

EID Fname Minit Lname SSN

Ste EID Fname Minit Lname SSN

Minit Lname SSN

<u>PID</u>

There is no N-ary Relationship Type

Bill

AssessmentID VID NurseID

| ICD-10-CM | Name | Time_In | Time_Out | SP_ID

| MemberID | Insurance_Provider | Valid_Date | PID

PATIENT

EID Fname Minit Lname SSN

Bill

MemberID Insurance_Provider Valid_Date

| ICD_10_CM | Name | Time_In | Time_Out

Cost

Approval

_From_Parent

Date

Fname

Final Result

