```
DDL:
 · create table tablename
    ( attribute datatype auto-increment & if primary (cey
      attribute datatype if not null,
      primary key cathibute),
      foreign (cet (attribute) reference tablename (attribute);
    * primary key is automatic not mull
    * foreign liey is also one of attribute
     * each statement supercle by comma-
     * foreign (cry need to have not neel
  · insert into tablename values
Fithes default, attribute, attribute),
auto-increment
  · update tablename
     set statement
     where clause;
```

· Referential Integrity

· delete from tublename

where clause

```
Add fl
                           the change table
                               the table ITC from
    Alter table tablename
     add constraint FK-tablename
     foreign trey cattibutes references fablename (attribute)
     on delete cascade
     on update cascade
Normalization
   practice in chatgpt:
     student (studentII), student Name)
      envoll (student 1) course Name, Envollment Date. Grade)
PER PR
 ZNF
      student (student I), student Name)
```

course ( rourse Name)

enroll (studentio couseID Enrollmentlate, Grade)

3 NF

some as above

```
practice in chatapt:
 2M-
   patient ( <u>PatientID</u>, patientName)
  record-visit LuisitID. DoctorID. DoctorName, Specialization visitlate
                  TreatmentID. TreatmentName, Cost, PatientID )
PK
2 ME
      patient ( <u>PatientID</u>, patientName)
      record-visit ( <u>visitID</u>, DoctorID, DoctorName, Specialization.
                     Treatment (D) visitlate Patient (D)
       7. eatment (<u>Treatmentil</u>, Treatment (Vame, cost)
3N/2 patient ( Patient ID , patient Name)
```

7. eatment (<u>Treatmentil</u>, Treatment Name, cost)

Doctor ( <u>DoctorID</u>, DoctorName. Spaialization) record-visit ( <u>visitio</u> Doctor ID - Treatment ID Patient FIC PFIC Price visitlate) ER diagram: In physical model \* need datetype \* the relationship need name . Ot genve PK categury Varchar (64) PK userID int Femail varchar(155) \*movie catalogs passward char(64) \* pk movielD int name varchar(40) title varihar(s) photo BLOT release-year DATE FK favorite-genre varchar(64) profile FK category vanhar(64) category PFK longlitude deimal (7.4) actor varihar [atitude decimal(7,4) director varchar PF/( PF(c user ID PK whenrewed timestamp moviepage vienneury > favoritemovielist PEK USEVID int PKK [-ngli[ade decima] PFIR movie ID int PIEIC movie21) int PIEC Catilud decimal PFIC USEVID int rating smallint PICK userII) int review varchar (64) PFIC whenecold timestemp PRWhenrating DATE PIR movie LD whenupdaterating BAIE

)W-

i. select and explain business process

ii. declare the grain and justify your choice

iii. Identify and explain the dimensions.

iv. : dentify and explain the fact

same that the two rows could be aggregate.

-> Dun't forget to write the datatype.