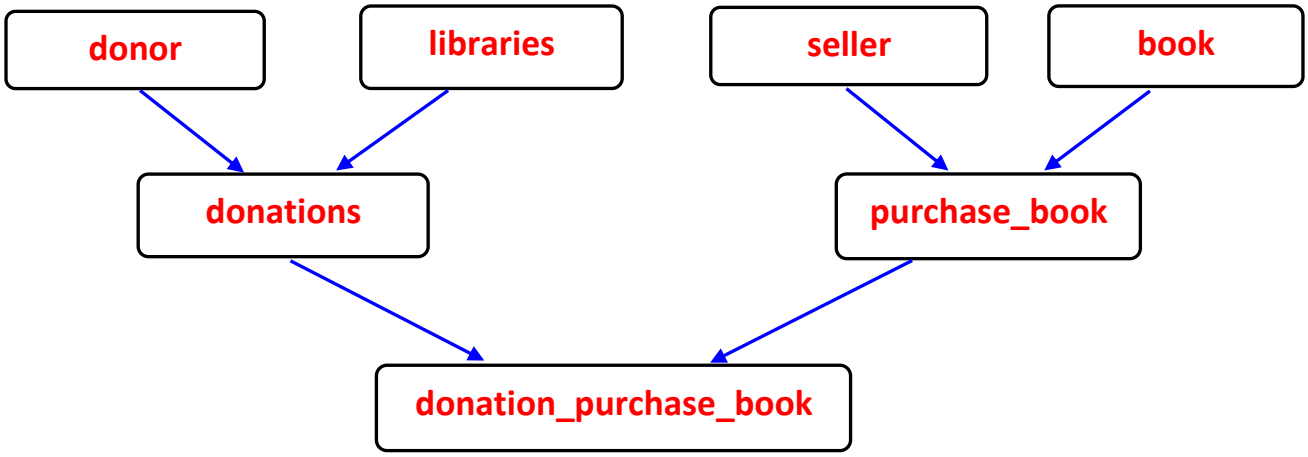
Practice Assessment

Case Scenario:- Library Donations

In this case donations are made by donors and this donation is used to purchase the book from sellers and each book will be different and specific genre. In purchase table we will take care about the each book by from donations.

Database model:



Relationship Format ⟹ 1 ⟶ N

Now we can have multiple attribute for these entities:-

Donor:

D_id,D_name,D_mobi,D_amount

Libraries:

L_id,Lname,L_loc

Seller:

S_id,S_name,S_mobi

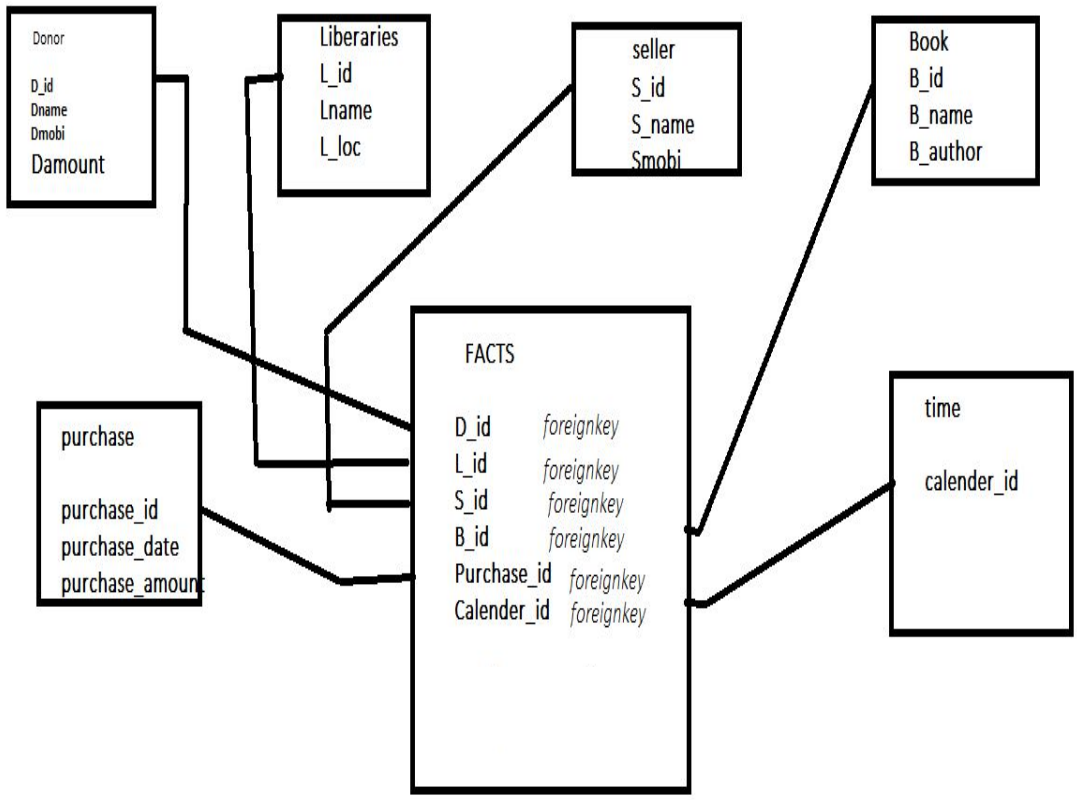
Book:

B_id,B_name,B_author and so on

Purchase:

Purchase_id, purchase_date, purchase_amount

Now we will convert this database model to dimension model:-



Now we can say here , we have 1 fact table and 6 dimensions

And we have relationship that:-

donor to *fact* = *1* to *Many*

libraries to *fact* = *1* to *Many*

seller to *fact* = *1* to *Many*

book to *fact* = *1* to *Many*

purchase to *fact* = *1* to *Many*

time to *fact* = *1* to *Many*

I am writing the fact table in MySQL query:-

CREATE TABLE fact(D_id **INT**, L_id **INT(10)**, S_id **INT(10)**, B_id **INT(10)**, Calender_id **INT(10)**, purchase_Amount **INT**,

FOREIGN KEY(D_id) **REFERENCES** donor(D_id),

FOREIGN KEY (L_id) **REFERENCES** Libraries(L_id),

FOREIGN KEY(S_id) **REFERENCES** Seller(S_id),

FOREIGN KEY (B_id) **REFERENCES** Book(B_id),

FOREIGN KEY(purchase_id) **REFERENCES** purchase(purchase_id),

FOREIGN KEY(calender_id) **REFERENCES** time(calender_id));

So further detail we can get it by fact table and dimensions also after the inserting the values.