

CSE 4410  
DATABASE MANAGEMENT SYSTEMS II LAB

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LAB\_05: PL/SQL

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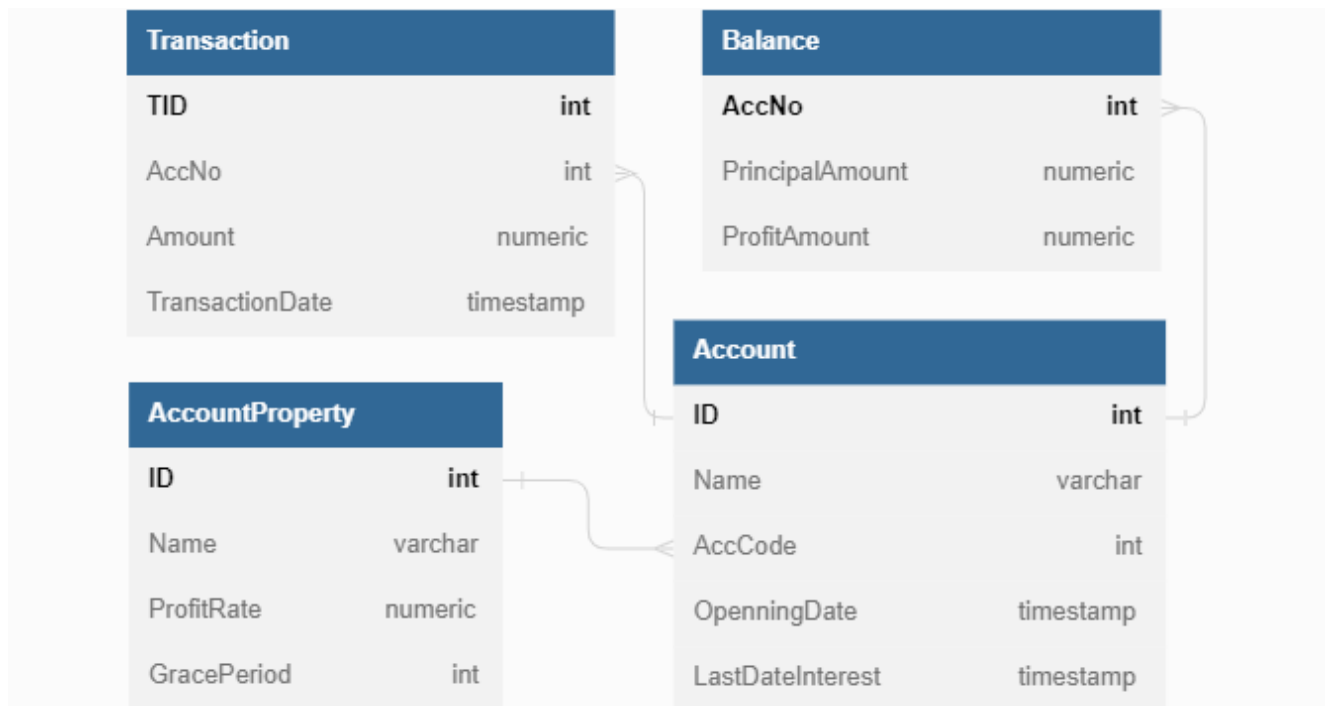
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Consider the following schema for a Banking database:



Create the necessary tables and insert some values. [You can use the DDLs of Lab\_04 here.]

Table 1: Account Property.

ID	Name	ProfitRate(per month)	GracePeriod (month)
2002	monthly	2.8	1
3003	quarterly	4.2	4
4004	biyearly	6.8	6
5005	yearly	8	12

1. Write a function to generate the Account\_id according to the following structure.

**Account\_id Format: TTTTYYYYMMDD.NNN.XXXXXX**

where, TTTT = AccCode;

YYYYMMDD = OpeningDate;

NNN = First three letters of Name;

XXXXXX = Serial No [Use sequence];

The function will take 3 IN parameters such as Name, AccCode, and OpeningDate. And it will return Varchar as the new Account\_id.

2. Modify the previous DDLs to accumulate the new Account\_id where Account\_id will replace the ID of the Account table and also the other dependencies.
3. Write a trigger to automate the assignment of Account\_id while inserting any new account.
4. Write another trigger that will automatically insert a new entry in the Balance table after successfully registering an account. The initial PrincipalAmount will be 5000 and the ProfitAmount will be 0;
5. Finally another trigger will update the PrincipalAmount = Previous PrincipalAmount+Amount when there will be any new transaction made for an account.