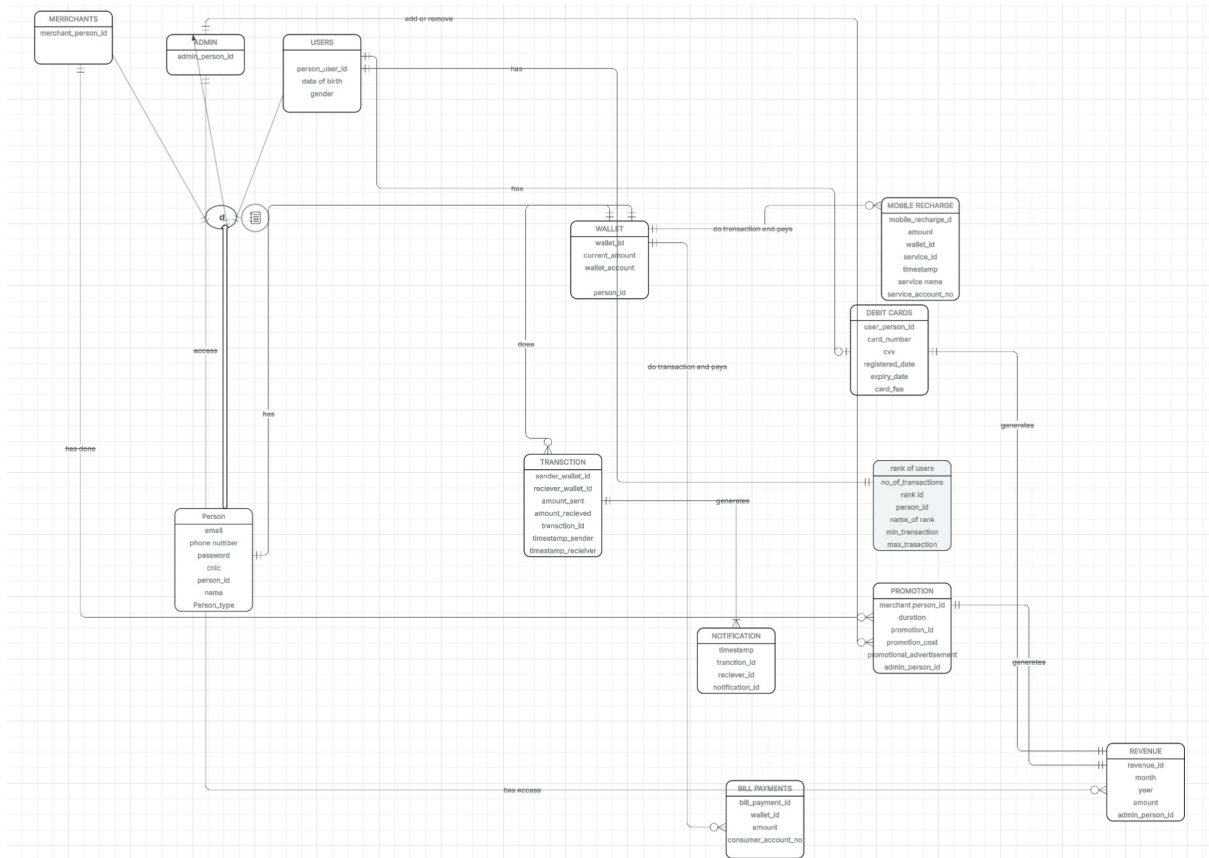# ADVANCED DATABASE MANAGEMENT :
PART 1:

ER DAIGRAM 1NF:

ER DIAGRAM IN 3NF:

MERRCHANTS
merchant_person_id

ADMIN
admin_person_id

USERS
person_user_id
date of birth
gender

add or remove

has

has

WALLET
wallet_id
current_amount
wallet_account

person_id

do transaction and pays

MOBILE RECHARGE
mobile_recharge_d
amount
wallet_id
service_id
timestamp

used

telecom_service
service_name
service_id
comapny_account

access

does

DEBIT CARDS
user_person_id
card_number
cvv
registered_date
expiry_date
card_fee

generates

has done

has

generate

TRANSCTION
sender_wallet_id
reciever_wallet_id
amount_sent
amount_recieved
transction_id
timestamp_sender
timestamp_recieiver

Person
email
phone number
password
cnic
person_id
name
Person_type

do transaction and pays

rank of users
no_of_transactions
rank id
person_id

has

rank
rank id
rank name
min transctions
max transctions

taken by

TRANSCTION_NOTIFICATION
Notification_id
transction_id

PROMOTION
merchant_person_id
duration
promotion_id
promotion_cost
promotional_advertisement
admin_person_id

has

NOTIFICATION
timestamp

reciever_id
notification_id

generates

REVENUE
revenue_id
month
year
amount
admin_person_id

has access

BILL PAYMENTS
bill_payment_id
wallet_id
amount
consumer_account_no