

## Laboratory work 7

*Please, use lab7.sql to create and fill tables*

1. How can we store large-object types?
2. What is the difference between privilege, role and user?
  - create *accountant*, *administrator*, *support* roles and grant appropriate privileges
  - create some users and assign them roles,
  - give to some of them permission to grant roles to other users
  - revoke some privilege from particular user
3. Add appropriate constraints
  - check if transaction has same currency for source and destination accounts (use assertion)
  - add not null constraints
4. Change currency column type to user-defined in accounts table
5. Create indexes:
  - index so that each customer can only have one account of one currency
  - index for searching transactions by currency and balance
6. Write a SQL transaction that illustrates money transaction from one account to another:
  - create transaction with “init” status
  - increase balance for destination account and decrease for source account
  - if in source account balance becomes below limit, then make rollback
  - update transaction with appropriate status(commit or rollback)