**Assignment # 4**

**Course: Database Systems**

1. Consider the following relations in an organization database:

Emp(eno, ename, sal, comm, dept-no, job type, joining\_date)

Dept(dno, dname, location, dmgrno)

Manpower\_Budget(dno, year, cost)

Job type can be SOFTWARE ENGINEER, HR, PRODUCION ENGINEER, RESEARCH SCIENTIST, DELIVERY ENGINEER.

Write efficient implementation for the following tasks:

1. After every year of job completion salary of the employees will be incremented as follows:

SE – 10% (If manager 15%)

HR – 7% (If manager 10%)

PE – 15% (If manager 18%)

DE – 12% (if manager 15%)

RS – 15% (if manager 18%)

However, the total increment for every year should be less than the cost assigned for manpower for that year. In violation of this warning should be raised. For each successful salary increase, an entry is to be added in a new table called salary\_hike with eno, ename, date of increment, increment amount.

1. Display the name of top 3 salary earners in each dept-no (total salary = salary + comm; commission can be NULL for some employees)
2. Change the dept-location through views
3. Whenever a new employee joins/leaves the organization, automatically insert his details with date of joining, last-salary drawn, date of leaving in a separate table called employee\_history.
4. Create tables

Account (accno, name, branch, balance)

Transaction (tr\_no, date, type, amt)

1. Write PL/SQL program for performing sequence of withdraw and deposit operations on a given account and with a given amount. A trigger will automatically capture insufficient fund in withdrawal. In case of successful withdrawal and deposits, relevant data will be inserted in Transaction table.
2. If the no of withdrawals in an account on a day is more than 3, deduct Rs 50 on every withdrawal automatically.