**Database Lab Assignment 7**

**Consider student attendance database created**

1. Write a JDBC Application to display list of students whose percentage of attendance is more than a given value for a given course.
2. Write a JDBC Application to find out the name of the students with their attendance who have registered for a course taken by a given instructor.

**Consider Hospital OPD Database**

1. The records in OPD\_payments to be automatically updated based on Schedule and Appointment table. If a patient visits twice the same doctor within a week, amt in OPD\_payments will be automatically set to 0. For senior citizen female patients, the fees to be reduced by 50% and entry should be automatically inserted in OPD\_payments table.
2. Write a JDBC Application to display units where the total amount for a given date is more than a given amount.
3. Write a JDBC Application calling a procedure to find out the name of the doctor and date of appointment who has appointments for given patient id.

**Consider the Company databases created**

1. Write a JDBC Application calling a procedure to find out the name of the employee and name of the department for the employee who is the manager for a given employee ID.
2. Write a JDBC application to show the job title and name of those employees who have been hired after a given date (supplied by user), and who have a manager working in a given department (supplied by user). [Use cursor]
3. Write a JDBC application to update salary (by 5%) AND job type of a given employee based on empno using prepared statements. Write and use a trigger for the following:

a. The changes for the employee need to be inserted in a newly created table EMP\_CHANGE

with attributes <EMPNO, :old.jobtype, :new.jobtype, :old.salary, :new.salary, change\_date,

user>;. “change\_date” is the date of update and “user” who has modified the record.

b. Check whether the salary of an employee to be updated doesn’t violate the min-max salary

constraint of the corresponding job ID. If it violates the constraint raise an exception.

4. Write a JDBC application for generating a report for the following query and send query results to an external file.

Query: Display deptno, deptname and Total\_salary of those departments which spend >= 100000 in salary