**Data Querying and Manipulation using SQL**

**Subqueries & DDLs**

Write appropriate SQL queries for following problems.

1. How many employees' salary is higher than the average salary in each of their respective departments? Show this employee count against each department name in the reverse order of count.
2. List all employees belonging to job ids that have the highest no. of employees.
3. List employees with duplicate first names along with duplicate count.
4. Assume a whole employee record is duplicated (except the employee id). Write a query to delete the duplicate record (with the higher employee no.)
5. Create a PROJECTS table as (project id - NUMBER(10) PK, project name - VARCHAR(50) NN, proj\_locn NUMBER(4) FK to Locations table, proj\_leader - NUMBER(6) FK to employees)
6. Create PROJECT\_ALLOCN table as (project id - FK to Projects table, employee\_id - FK to Employees table, Start\_dt - DATE, End\_dt - Date, with employee\_id & start\_dt as primary key)
7. Insert few rows into these tables. Create a project by name DBCONVERSION project. Make 'Adam Fripp' as its leader and location same as the location of the project leader. Allocate employees who report to 'Adam Fripp' to this project starting from today.
8. Update End date of emp. no. 186 & 187 to last date of this year.
9. Try deleting this new project inserted into Projects table. What should be done prior to deleting it?
10. Insert your name & other details into Employees table. Department: Training. Location: Bengaluru. (Insert rows into appropriate tables if these values do not exist in them).
11. Delete this new row inserted in the Employees table.
12. Delete the employee records in PROJECT\_ALLOCN table who report to a given manager name.