Assignment on File Operations & JDBC

Create a Maven project named '**Assignment_12_Mar_2025**'. Place the project into new parent repository named '**Zorba_Assignment_Submission**' add me(abhi.gayen89@gmail.com) as collaborator.

PART – A

1. Read **employee.xlsx** file attached in the assignment. Read all the 5 rows in the excel and keep in the employee array.
2. Create one properties file named as **employee.properties** file keep in the resource folder of the project.
3. In properties file insert the below data **using java** as:

Property Key	Property Value
empId empName empAddress empMobile department doj	1006 Ruby Lama San Diego 3456776532 Finance 2021-12-23
empId1 empName1 empAddress1 empMobile1 department1 doj1	1007 Danjo Las Vegas 7456776532 HR 2022-12-21
empId2 empName2 empAddress2 empMobile2 department2 doj2	1008 Jack Sophia Boston 8456776532 Science 2021-10-25

4. Read the **employee.properties** and populate employee array and keep the above 3 employee data.

** order of the data would be as 1ˢᵗ 5 data would from excel file and last 3 would be from properties file.

5. Write all the 8-employee object inside a new excel file name '**employee_modified.xlsx**' and keep inside resource folder.

PART – B

1. Use JDBC connection string (url, username, password) and keep the information in dbConection.properties file placed under resource folder.
2. Need to read those connection string from the properties file and and create jdbc connection.
3. Create 2 tables named 'employee' (emp_id (pk), emp_name, emp_address, emp_mobile, emp_doj) & 'Department'(dept_id(pk), dept_name, emp_id (fk))
4. Make sure both PK (employee and department) would be auto generated.
5. Read the excel file (employee.xlsx) and insert to employee and department tables.
6. Based on the data available in the exployee.xlsx mapped the employee with the department.
7. Once all the data inserted then add a new column in employee table as emp_salary.
8. Write a SP and Function using JDBC to populate the emp_salary columns.
   Logic to populate the salary as below,
   If department = Finance then salary = 30000
   Else if department = HR then salary = 45000.34
   Else if department = Engg then salary = 50000
   Else if department = Science then salary = 70000

   Populate the emp_salary columns accordingly.

PART – C

1. Read data both the employee and department table using JDBC
2. Create pdf name **'Employee_balance_sheet.pdf'.** (Follow the sample pdf and design the new pdf accordingly)
3. Keep the newly created pdf file under resource folder.