**Assignment:- 1**

1. Create a Data Frame with **name, firstname, middlename, lastname**, dob, gender and salary fields.

e.g:-

Table

Description automatically generated with medium confidence

1. Select **firstname, lastname** and **salary** from Dataframe.
2. Add **Country, department**, and **age** column in the dataframe.
3. Change the value of salary column.
4. Change the data types of **DOB** and **salary** to String
5. Derive new column from salary column.
6. Rename nested column( **Firstname -> firstposition, middlename -> secondposition, lastname -> lastposition**)
7. Filter the name column whose salary in maximum.
8. Drop the department and age column.
9. List out distinct value of dob and salary

**Assignment:- 2**

1. Create a non-nested dataframe with **product, amount** and **country** fields.

e.g.:-

Table

Description automatically generated

1. Find total amount exported to each country of each product.

Hint:- use pivot function

1. Perform unpivot function on output of question 2.

Assignment: 3.

1. Create a data frame **with employee\_name, department** and **salary.**

e.g:-

Table

Description automatically generated

1. Select first row from each department group.
2. Create a Dataframe from Row and List of tuples.
3. Apply Schema while creating a Dataframe.
4. Retrieve Employees who earns the highest salary.
5. Select the highest, lowest, average, and total salary for each department group.