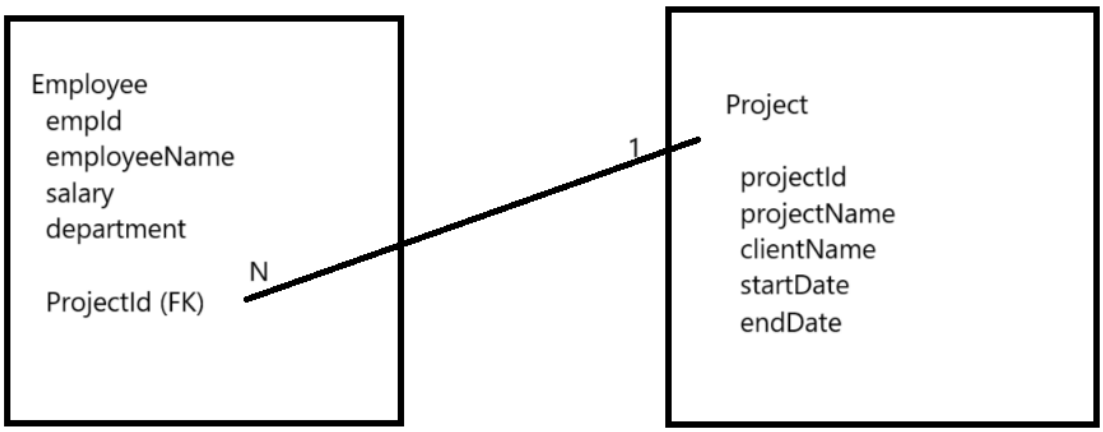
JDBC Work Assignment

Based on the given application

https://github.com/fsdtrinings/batch2_NOI_Classwork/tree/main/JDBCDemo1

implement following use cases

1) Add more columns
    a. Location
2) Create one more table Project, establish a relationship between Employee & Project based on below mentioned class diagram



Execute following Query

```
create table project(
 projectid int primary key,
 projectName varchar(45),
 clientName varchar(45),
 startDate varchar(45),
 enddate varchar(45)
);
ALTER TABLE Employee ADD projectid int;
Alter table  Employee add FOREIGN KEY (projectid) REFERENCES project(projectid) on delete no action;
```

3) Insert Data in Project Table and assign Projects to employees.
    a. *Hint : execute update query if projected = null in order to provide new Project to employee*

4) Execute following Select Query
    a. Get All Employees based on location
    b. Get Total & Average salary and Count of Employee based on Department
    c. Get All Employees along with ProjectName , based on below output

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

empid	employeeName	projectName	clientName	endDate
101	Ramesh	InsurancePolicy	ICICI	19-02-2025
102	Mahesh	MutalFund	HDFC	19-01-2025
103	Suresh	InsurancePolicy	ICICI	19-02-2025
104	Lokesh	TransactionManagement	ICICI	19-02-2027
105	Rakesh	TransactionManagement	ICICI	19-02-2027

Hint : use Inner Join

Appendix : SQL Script

```
use noi;

insert into employee values(102,'Mahesh',3500,'Sales');

select * from Employee where department = 'Marketing';
```

Creation of New table

```
create table project(
 projectid int primary key,
 projectName varchar(45),
 clientName varchar(45),
 startDate varchar(45),
 enddate varchar(45)
);
```

Alter Table

```
ALTER TABLE Employee ADD projectid int;

Alter table  Employee add FOREIGN KEY (projectid) REFERENCES project(projectid) on delete no action;
```

Inserting Into Project Table

```
insert into project values(700,'InsurancePolicy','ICICI','20-02-2023','19-02-2025');
```

Update Table

```
update Employee set projectid = 700 where empid = 101;
```

Inner Join

```
SELECT empid, employeeName,p.projectName,p.clientName,p.endDate

FROM employee as e

INNER JOIN project as p ON e.projectid = p.projectid;
```

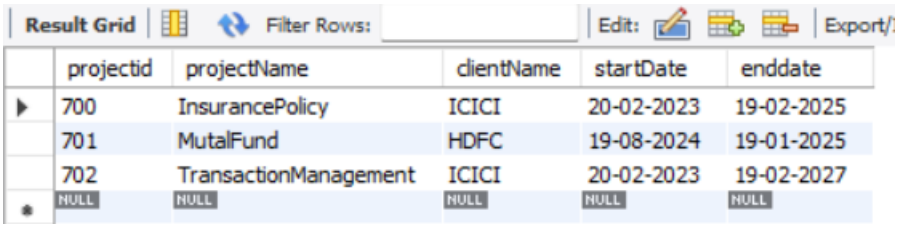
Table Structure

Employee Table


Result Grid | Filter Rows: | Edit:

empid	employeeName	salary	department	projectid
101	Ramesh	2000	Testing	700
102	Mahesh	3500	Sales	701
103	Suresh	2500	Marketing	700
104	Lokesh	2500	Marketing	702
105	Rakesh	2800	Marketing	702
NULL	NULL	NULL	NULL	NULL

Project Table


Result Grid | Filter Rows: | Edit: | Export/

projectid	projectName	clientName	startDate	enddate
700	InsurancePolicy	ICICI	20-02-2023	19-02-2025
701	MutalFund	HDFC	19-08-2024	19-01-2025
702	TransactionManagement	ICICI	20-02-2023	19-02-2027
NULL	NULL	NULL	NULL	NULL