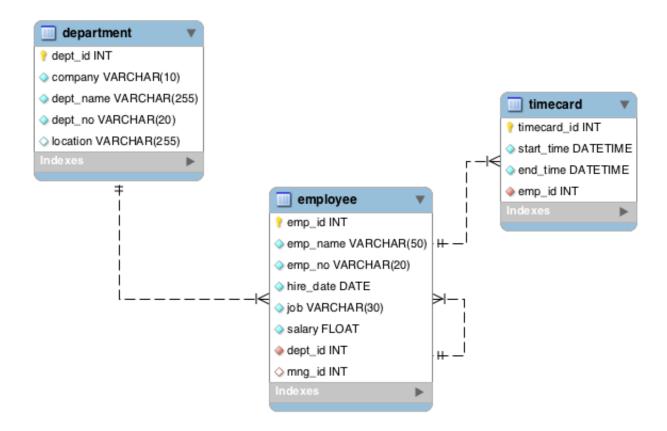
companydata Data Layer Documentation

Use the DataLayer similar to Project 2, the main difference is the constructors for each class. The ones that are available are shown at the end.

Methods (all throw an exception if there is an error, such as the requested object doesn't exist): //Delete all Departments, Employees and Timecards for a company //Returns the number of rows deleted public int deleteCompany(String companyName) //Insert a department //Returns the inserted Department public Department insertDepartment(Department department) //Get all Departments for a given company //Returns a list of Department objects public List<Department> getAllDepartment(String companyName) //Get a given Department for a given company //Returns the requested Department public Department getDepartment(String companyName, int dept id) //Get a given Department for a given company //Returns the requested Department public Department getDepartmentNo(String companyName, String dept no) //Update a Department //Returns the updated Department public Department updateDepartment(Department department) //Delete a given Department for a given company //Returns the number of rows deleted public int deleteDepartment(String company, int dept_id) //Insert an Employee //Returns the inserted Employee public Employee insertEmployee(Employee employee) //Get a list of Employees for a given company //Returns the list of Employee objects

```
public List<Employee> getAllEmployee(String companyName)
//Get the requested Employee
//Returns the requested Employee
public Employee getEmployee(int emp id)
//Update an Employee
//Returns the updated Employee object
public Employee updateEmployee(Employee employee)
//Delete the given Employee
//Returns the number of rows deleted
public int deleteEmployee(int emp_id)
//Insert a Timecard
//Returns the inserted Timecard
public Timecard insertTimecard(Timecard timecard)
//Get all Timecards for a given Employee
//Returns the list of Timecard objects
public List<Timecard> getAllTimecard(int emp id)
//Get the requested Timecard
//Returns the requested Timecard
public Timecard getTimecard(int timecard_id)
//Update a given Timecard
//Returns the updated Timecard
public Timecard updateTimecard(Timecard timecard)
//Delete the given Timecard
//Returns the number of rows deleted
public int deleteTimecard(int timecard_id)
//Close the connection
```

public void close()



The **employee** table has two foreign keys:

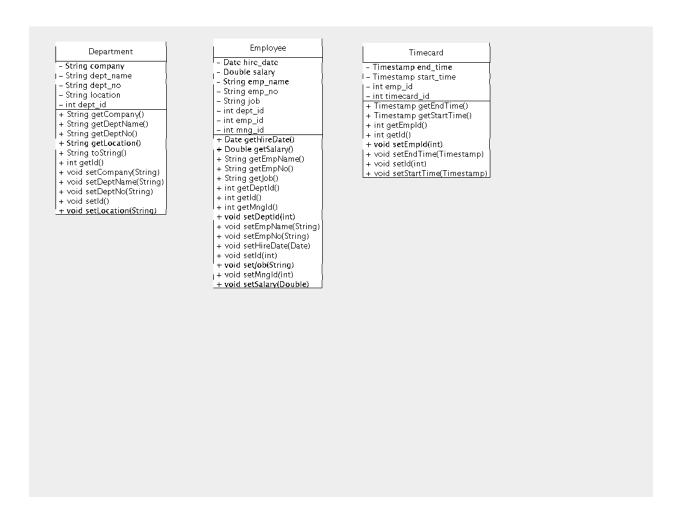
- 1. mng id references employee.emp id
- 2. dept_id references department.dept_id

The **employee** table has an additional unique index of emp_no besides the the primary key

The **timecard** table has one foreign key:

1. emp id references employee.emp id

The **department** table has one additional unique index of dept no besides the primary key



Each class has constructors of (the dates and timestamps are in the format in the project description):

Employee:

Employee(String emp_name, String emp_no, String hire_date, String job, Double salary, int dept id, int mng id)

Department:

Department(String company, String dept_name, String dept_no, String location)

Department()

Timecard:

Timecard(String start time, String end time, int emp id)

Timecard()