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Mindex Code Challenge Solution

Testing Data

I ran Task 1 and Task 2 both against all 5 test case employees that were provided in the database and have documented them here for your ease of viewing. I have also documented runs of my Unit tests as well.

Task 1

Run 1

```
numberOfReports:          4
▼ employee:
    employeeId:           "16a596ae-edd3-4847-99fe-c4518e82c86f"
    firstName:            "John"
    lastName:             "Lennon"
    position:             "Development Manager"
    department:           "Engineering"
  ▼ directReports:
    ▼ 0:
        employeeId:       "b7839309-3348-463b-a7e3-5de1c168beb3"
        firstName:        "Paul"
        lastName:         "McCartney"
        position:         "Developer I"
        department:       "Engineering"
        directReports:    null
    ▼ 1:
        employeeId:       "03aa1462-ffa9-4978-901b-7c001562cf6f"
        firstName:        "Ringo"
        lastName:         "Starr"
        position:         "Developer V"
        department:       "Engineering"
      ▼ directReports:
        ▼ 0:
            employeeId:   "62c1084e-6e34-4630-93fd-9153afb65309"
            firstName:    "Pete"
            lastName:     "Best"
            position:     "Developer II"
            department:   "Engineering"
            directReports: null
        ▼ 1:
            employeeId:   "c0c2293d-16bd-4603-8e08-638a9d18b22c"
            firstName:    "George"
            lastName:     "Harrison"
            position:     "Developer III"
            department:   "Engineering"
            directReports: null
```

Result: Pass

Run 2

```
numberOfReports:    0
▼ employee:
    employeeId:     "b7839309-3348-463b-a7e3-5de1c168beb3"
    firstName:      "Paul"
    lastName:       "McCartney"
    position:       "Developer I"
    department:     "Engineering"
    directReports:  null
```

Result: Pass

Run 3

```
numberOfReports:    2
employee:
    employeeId:     "03aa1462-ffa9-4978-901b-7c001562cf6f"
    firstName:      "Ringo"
    lastName:       "Starr"
    position:       "Developer V"
    department:     "Engineering"
▼ directReports:
    ▼ 0:
        employeeId:     "62c1084e-6e34-4630-93fd-9153afb65309"
        firstName:      "Pete"
        lastName:       "Best"
        position:       "Developer II"
        department:     "Engineering"
        directReports:  null
    ▼ 1:
        employeeId:     "c0c2293d-16bd-4603-8e08-638a9d18b22c"
        firstName:      "George"
        lastName:       "Harrison"
        position:       "Developer III"
        department:     "Engineering"
        directReports:  null
```

Result: Pass

Run 4

```
numberOfReports:    0
employee:
    employeeId:    "62c1084e-6e34-4630-93fd-9153afb65309"
    firstName:     "Pete"
    lastName:      "Best"
    position:      "Developer II"
    department:    "Engineering"
    directReports: null
```

Result: Pass

Run 5

```
numberOfReports:    0
employee:
    employeeId:    "c0c2293d-16bd-4603-8e08-638a9d18b22c"
    firstName:     "George"
    lastName:      "Harrison"
    position:      "Developer III"
    department:    "Engineering"
    directReports: null
```

Result: Pass

Task 2

Run 1

employeeId: "16a596ae-edd3-4847-99fe-c4518e82c86f"
salary: 120000
effectiveDate: "11/27/2008"

Result: Pass

Run 2

employeeId: "b7839309-3348-463b-a7e3-5de1c168beb3"
salary: 150000
effectiveDate: "01/05/2006"

Result: Pass

Run 3

employeeId: "03aa1462-ffa9-4978-901b-7c001562cf6f"
salary: 76000
effectiveDate: "08/21/2017"

Result: Pass

Run 4

employeeId: "62c1084e-6e34-4630-93fd-9153afb65309"
salary: 132000
effectiveDate: "05/18/2013"

Result: Pass

Run 5

employeeId: "c0c2293d-16bd-4603-8e08-638a9d18b22c"
salary: 100000
effectiveDate: "03/07/2012"

Result: Pass

Unit Tests

All Unit Tests passed

Test Summary

| 8 | 0 | 0 | 0.595s | 100% |
| tests | failures | ignored | duration | successful |

Packages   Classes

Package	Tests	Failures	Ignored	Duration	Success rate
com.mindex.challenge	3	0	0	0.328s	100%
com.mindex.challenge.service.impl	5	0	0	0.267s	100%

Mindex challenge unit tests

Package com.mindex.challenge

all > com.mindex.challenge

| 3 | 0 | 0 | 0.328s | 100% |
| tests | failures | ignored | duration | successful |

Classes

Class	Tests	Failures	Ignored	Duration	Success rate
ChallengeApplicationTests	1	0	0	0.265s	100%
DataBootstrapTest	2	0	0	0.063s	100%

ServiceImpl Unit Tests

Package com.mindex.challenge.service.impl

5	0	0	0.523s
tests	failures	ignored	duration

100%
successful

Classes

Class	Tests	Failures	Ignored	Duration	Success rate
CompensationServiceImplTest	1	0	0	0.032s	100%
EmployeeServiceImplTest	1	0	0	0.017s	100%
ReportingStructureServiceImplTest	3	0	0	0.474s	100%