



Chapter 2: Relationships

Lab: One-to-One Relationship

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Problem:

A legacy database has been ported to MongoDB, resulting in a set of collections that were mapped to their original tables. This port has been quickly identified as a poor solution.

We have been tasked with redesigning the **employees** collection to make better use of the document model to make the information clearer.

employees [10000]
<div><div>_id: &lt;objectId&gt;</div><div>lastname: &lt;string&gt;</div><div>first_name: &lt;string&gt;</div><div>street: &lt;string&gt;</div><div>city: &lt;string&gt;</div><div>zip: &lt;string&gt;</div><div>country: &lt;string&gt;</div><div>home_phone: &lt;string&gt;</div><div>employee_id: &lt;int&gt;</div><div>reports_to: &lt;int&gt;</div><div>title: &lt;string&gt;</div><div>work_phone: &lt;string&gt;</div><div>hired_date: &lt;date&gt;</div><div>birth_date: &lt;date&gt;</div><div>salary: &lt;decimal&gt;</div><div>bonus: &lt;decimal&gt;</div></div>

While we are restructuring the database, the Human Resources department would like us to move any confidential employee information to a different collection to make the information easier to protect.

Consider the following potential schema designs. Each of these designs represents an individual employee and the One-to-One relationship between all of their fields.

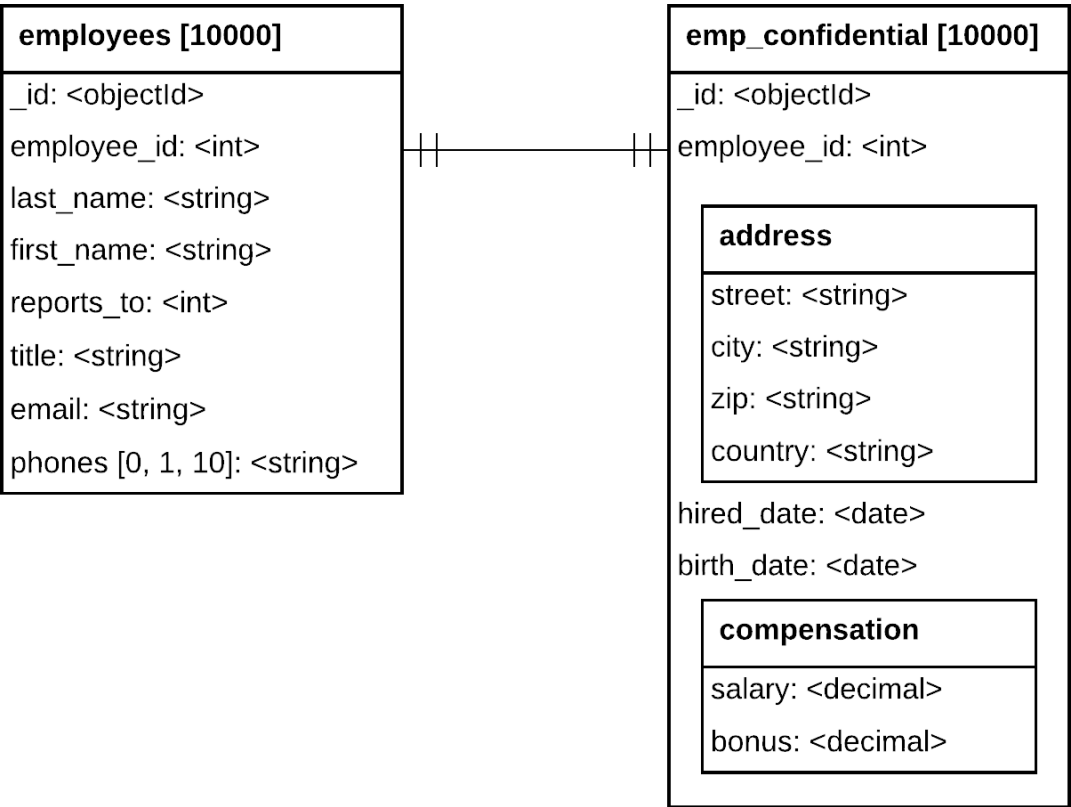
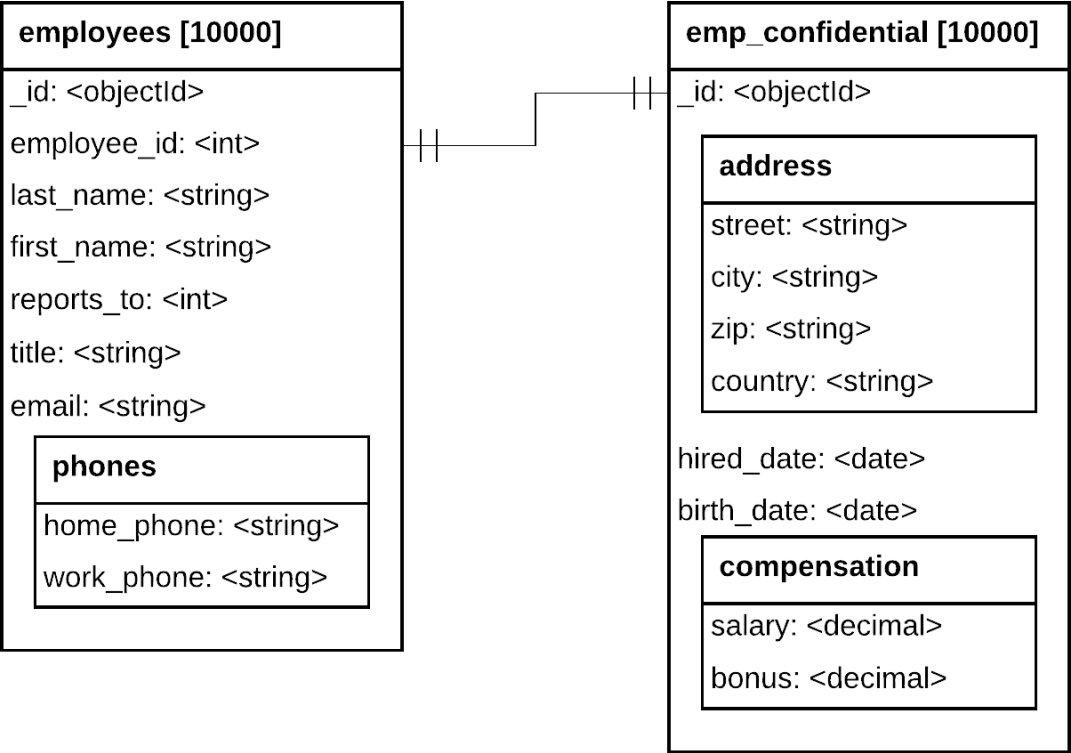
The ideal schema design should store:

- address information together as an embedded sub-document
- all of an employee's phone numbers together as an embedded sub-document
- all salary and bonus compensation information together as an embedded sub-document
- all confidential information in a separate collection

Once you've identified the ideal design, you can deepen your knowledge by trying to explain why each of the other options is not the preferred design choice.

Attempts Remaining: **Correct Answer**   

Choose the best answer:

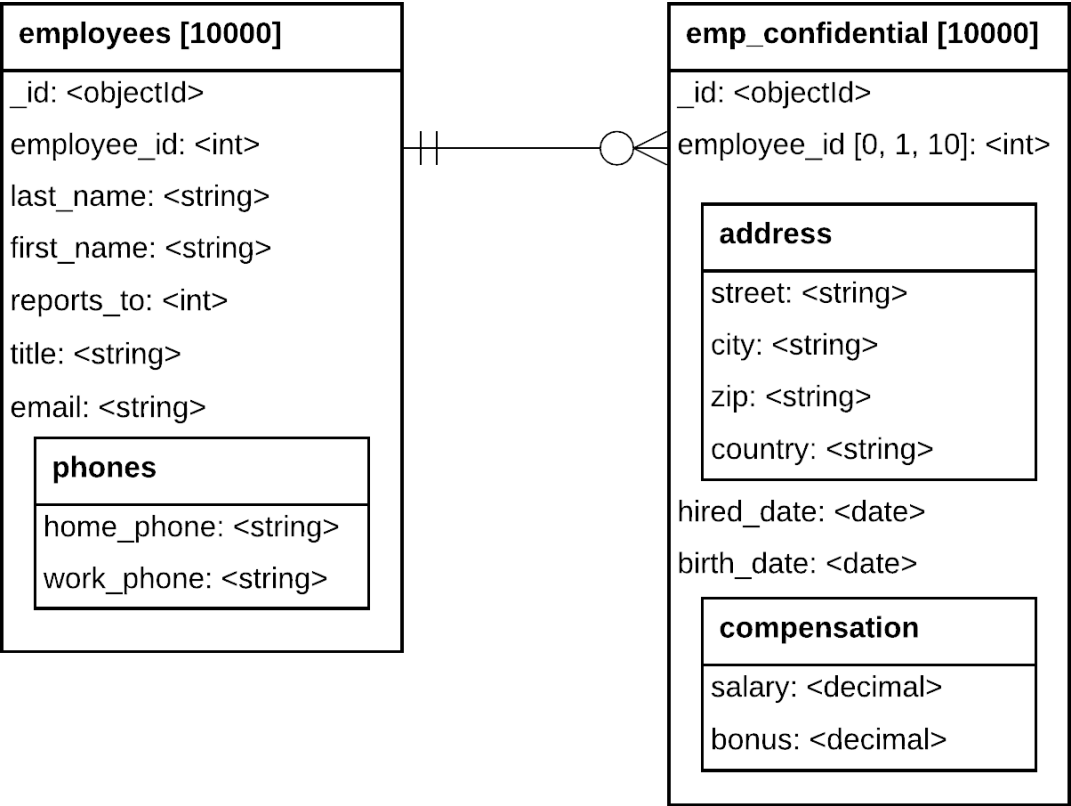




employees [10000]
<div><div>_id: &lt;objectId&gt;</div><div>lastname: &lt;string&gt;</div><div>first_name: &lt;string&gt;</div></div> <div><div>address</div><div><div>street: &lt;string&gt;</div><div>city: &lt;string&gt;</div><div>zip: &lt;string&gt;</div><div>country: &lt;string&gt;</div></div></div> <div><div>employee_id: &lt;int&gt;</div><div>reports_to: &lt;int&gt;</div><div>title: &lt;string&gt;</div></div> <div><div>phones</div><div><div>home_phone: &lt;string&gt;</div><div>work_phone: &lt;string&gt;</div></div></div> <div><div>hired_date: &lt;date&gt;</div><div>birth_date: &lt;date&gt;</div></div> <div><div>compensation</div><div><div>salary: &lt;decimal&gt;</div><div>bonus: &lt;decimal&gt;</div></div></div>



employees [10000]	emp_confidential [10000]
<div><div>_id: &lt;objectId&gt;</div><div>employee_id: &lt;int&gt;</div><div>last_name: &lt;string&gt;</div><div>first_name: &lt;string&gt;</div><div>reports_to: &lt;int&gt;</div><div>title: &lt;string&gt;</div><div>email: &lt;string&gt;</div></div> <div><div>phones</div><div><div>home_phone: &lt;string&gt;</div><div>work_phone: &lt;string&gt;</div></div></div>	<div><div>_id: &lt;objectId&gt;</div><div>employee_id: &lt;int&gt;</div></div> <div><div>address</div><div><div>street: &lt;string&gt;</div><div>city: &lt;string&gt;</div><div>zip: &lt;string&gt;</div><div>country: &lt;string&gt;</div></div></div> <div><div>hired_date: &lt;date&gt;</div><div>birth_date: &lt;date&gt;</div></div> <div><div>compensation</div><div><div>salary: &lt;decimal&gt;</div><div>bonus: &lt;decimal&gt;</div></div></div>



Correct!

[See detailed answer](#)

[Proceed to next section](#)

Assignment is Due

08d:05hr:15m  
24 gru, 17:00 UTC

Your Grade

PASS/FAIL  
Submitted