

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: <objectId></div><div>lastname: <string></div><div>first_name: <string></div><div>street: <string></div><div>city: <string></div><div>zip: <string></div><div>country: <string></div><div>home_phone: <string></div><div>employee_id: <int></div><div>reports_to: <int></div><div>title: <string></div><div>work_phone: <string></div><div>hired_date: <date></div><div>birth_date: <date></div><div>salary: <decimal></div><div>bonus: <decimal></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.

The ideal schema design should store:

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