

## RECRUITMENT TEST (PHP PROGRAMMER)

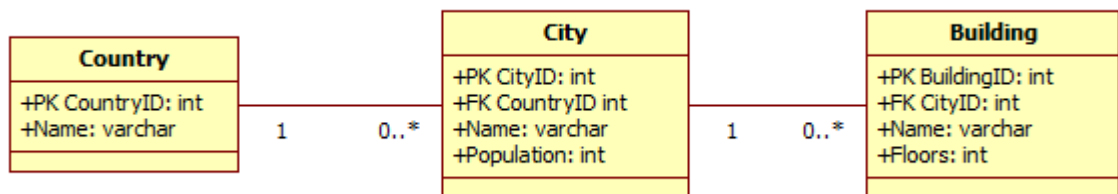
Instruction: Please answer the following questions to the best of your ability and return your solutions to X-Formation for review.

1. Imagine you have to design an application for a restaurant ordering system. Please follow the requirements listed below:

- There is a possibility to order lunch or drink
- There are three cuisines available to order from (Polish, Mexican, Italian)
- Lunch consists of main course and dessert
- When ordering a drink, customer can additionally ask for ice cubes or/and lemon
- We must have getPrice() and getName() methods for each meal and drink

Present your proposal for simple design (UML) **or** implementation (PHP) for this application. Please include **ONLY** given requirements.

2. Consider the following physical data model:



Write a SQL query that:

- I. Selects countries where a total number of inhabitants (population) in all the cities is greater than 400
- II. Selects names of countries that have no buildings at all.