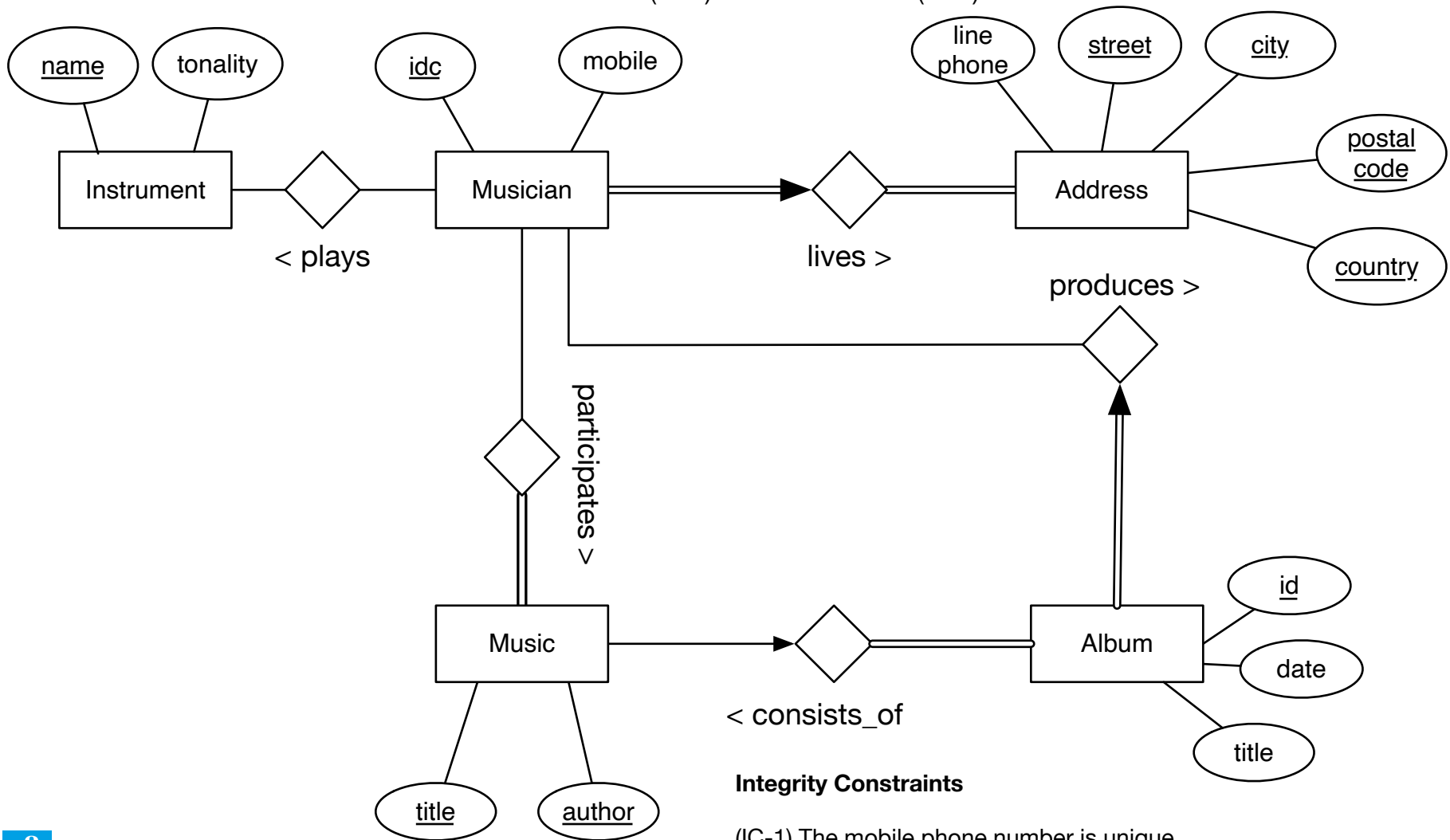**E-A Modeling**

Lab companion slides

Solution for
E-A Scenario 1

Atribute vs. Entity

▶ Create an entity from an attribute whenever:

- There is more than one value for the attribute for each instance of the Entity

- The attribute has its own structure (sub-attributes)

- The value of the attribute must be shared by multiple entities

▶ Example: address as attribute

- Employees have more than one address

- An address consists of the attributes: Street, city, country ...

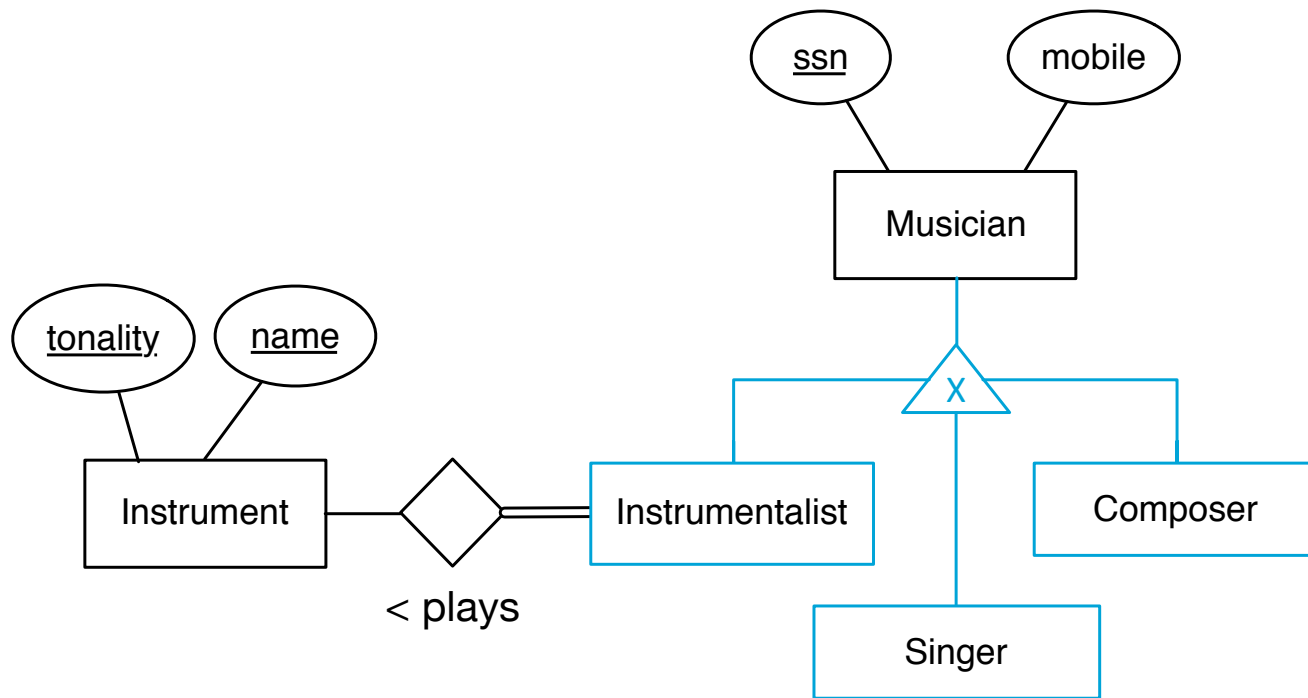- Some Employees share the same address

Lab Companion

Scenario 1

Integrity Constraints

(IC-1) The mobile phone number is unique
(IC-2) The land phone number is unique

Scenario 1: Alternative

Solution for
E-A Scenario 2

Scenario 2

Integrity Constraints

(IC-1) The mobile phone number is unique
(IC-2) The land phone number is unique
(IC-3) Musicians cannot **produce** Albums that
consist of Songs where they **participate**

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