

## Solution 1: Create a custom class

### 1. Create a new package.

- Right-click on **gsrc** folder and select **New → Package**.
- Enter **si.ta.classes.entity** as the new package name.

### 2. Create a new class.

- Right click on the entity package and select **New → Gosu Class**.
- Enter **ABContactSummary** as the new Gosu class name.

### 3. Create new properties and functions.

```
package si.ta.classes.entity

uses gw.api.system.database.SequenceUtil

/**
 * Training Lab
 */
class ABContactSummary {

    construct(i: int) {
        ExternalID = i
    }

    // Declare ExternalID property using getter and setter
    var _externalID: int // Don't use Integer because it will initialize as null.

    property get ExternalID(): int {
        return _externalID
    }

    property set ExternalID(externalId: int) {
        if(externalId == 0) {
            _externalID = SequenceUtil.next(1000, "externalID") as int
        } else
            _externalID = externalId
    }

    // Declare properties using shorthand syntax
    var _contactID: String as ContactID
    var _name: String as Name
    var _numCheckingAccounts: int as NumCheckingAccounts

    // Create functions

    /**
     * Function that initializes ABContact properties.
     */
    @Param("contact", "Input parameter of type entity.ABContact")
    function loadSummaryData(contact: ABContact): void {
        this._contactID = contact.PublicID
        this._name = contact.DisplayName
        this._numCheckingAccounts = contact.BankAccounts.countWhere(\account ->
            account.AccountType == typekey.BankAccountType.TC_CHECKING)
    }

    /**
     * Function that builds a comma-delimited list.
     */
    @Returns("A comma-delimited list of property values")
```

```
function buildConcatenatedSummary(): String {  
    return String.format("%s,%s,%s,%s", {_externalID, _contactID, _name, _numCheckingAccounts})  
}  
}
```

#### 4. Deploy code changes.

- From the **Studio** menu, **Restart** the server.

#### 5. Perform verification steps.

```
uses trainingapp.base.QueryUtil  
uses si.ta.classes.entity.ABContactSummary  
  
var testContact = QueryUtil.findContact("ab:5")  
var newSummary = new ABContactSummary(0)  
newSummary.loadSummaryData(testContact)  
print(newSummary.buildConcatenatedSummary())
```