Table1 The original class UserManager in ApacheHSQLDB

Original Class UserManager	
Attributes	Methods
IntValueHashMapStringLookup emptyRightsList hRightsLists	getRightsArray(int) getRightsArraySub(int) createUser(String, String password) dropUser(String) getUser(String, String password) getUsers() grant(String, Object, int) revoke(String, Object, int) exists(String) get(String) removeDbObject(Object) listVisibleUsers(Session, boolean) getGrantedClassNames()

Table2 The new classes extracted by developers

Class Extracted by the Developers - 1	
Attributes	Methods
	createUser(String, String) dropUser(String) getUser(String, String) getUsers() exists(String) get(String) listVisibleUsers(Session, boolean) getRightsArray(ints) removeDbObject(Object) getRightsArraySub(int)
Class Extracted by the Developers - 2	
Attributes	Methods
IntValueHashMapStringLookup emptyRightsList hRightsLists	grant(String, Object, int) revoke(String, Object, int) getGrantedClassNames()

Table3 The new classes extracted by our approach

Class Extracted our approach - 1	
Attributes	Methods
	getUser(String, String) removeDbObject(Object) dropUser(String) get(String) listVisibleUsers(Session, boolean) createUser(String, String, boolean)

Attributes	Methods
	exists(String)
	getUsers()

Class Extracted our approach - 2	
Attributes	Methods
rightsStringLookup emptyRightsList hRightsLists	grant(String, Object, int) revoke(String, Object, int) getRightsArray(int) getRightsArraySub(int) getGrantedClassNames()

Table 4 The new classes extracted by Bavota's approach[14]

Class Extracted Bavota's approach - 1	
Attributes	Methods
hRightsLists	getGrantedClassNames() createUser(String, String, boolean) dropUser(String) exists(String) get(String) listVisibleUsers(Session, boolean) getRightsArray(int)
Class Extracted Bavota's approach - 2	
Attributes	Methods
rightsStringLookup emptyRightsList	getUsers() removeDbObject(Object) getUser(String, String) grant(String, Object, int) revoke(String, Object, int) getRightsArraySub(int)

Table 5 The new classes extracted by Fokaefs' approach

Class Extracted Fokaefs' approach - 1	
Attributes	Methods
hRightsLists rightsStringLookup	getUser(String, String) getUsers() grant(String, Object, int) listVisibleUsers(Session, boolean) removeDbObject(Object) revoke(String, Object, int)
Class Extracted Fokaefs' approach - 2	
Attributes	Methods
	getRightsArraySub(int) getRightsArray(int) getGrantedClassNames() get(String)

	exists(String)
	emptyRightsList
	dropUser(String)
	createUser(String, String, boolean)