Table1 The original class Database in ApacheHSQLDB

Original Class Database	r
Attributes	Methods
sqlEnforceStrictSize	checkColumnIsInView(String, String)
urlProperties	classLoader
userManager	clearStructures()
CLOSEMODE_COMPACT	close(int)
CLOSEMODE_IMMEDIATELY	connect(String, String)
CLOSEMODE_NORMAL	dropIndex(Session, String, String, boolean)
CLOSEMODE_SCRIPT	dropTrigger(Session, String)
DATABASE_CLOSING	finalize()
DATABASE_ONLINE DATABASE_OPENING	findUserTableForIndex(Session, String) firstIdentity
DATABASE_SHUTDOWN	getAliasMap()
bIgnoreCase	getJavaName(String)
bReferentialIntegrity	getPath()
databaseID	getProperties()
databaseProperties	getSessionManager()
databaseReadOnly	getState()
dbState	getStateString()
filesInJar	getTable(Session, String)
filesReadOnly	getTableIndex(Table)
compiledStatementManager	getType()
hAlias	getURI()
logger	getUserManager()
sName	getUserTable(Session, String)
sPath	getViewsWithSequence(NumberSequence)
sType	getViewsWithTable(String, String)
sessionManager	getViewsWithView(View)
	isFilesInJar()
	isFilesReadOnly()
	isIgnoreCase()
	isReferentialIntegrity()
	isShutdown()
	linkTable(Table)
	nameManager
	open()
	recompileViews(String)
	removeExportedKeys(Table)
	reopen()
	setFilesReadOnly()
	setIgnoreCase(boolean)
	setMetaDirty(boolean)
	setReadOnly()
L	<i>J.</i> V.

setReferentialIntegrity(boolean)
setState(int)

Table2 The new classes extracted by developers

Class Extracted by the Developers - 1	
Attributes	Methods
firstIdentity	open()
bIgnoreCase	reopen()
bReferentialIntegrity	clearStructures()
databaseProperties	getType()
hAlias	getPath()
userManager	getProperties()
nameManager	getSessionManager()
sessionManager	isShutdown()
compiledStatementManager	connect(String username, String password)
DATABASE_ONLINE	setReadOnly()
DATABASE_OPENING	setFilesReadOnly()
DATABASE_CLOSING	isFilesReadOnly()
DATABASE_SHUTDOWN	isFilesInJar()
CLOSEMODE_IMMEDIATELY	getUserManager()
CLOSEMODE_NORMAL	setReferentialIntegrity(ref)
CLOSEMODE_COMPACT	isReferentialIntegrity()
CLOSEMODE_SCRIPT	getAliasMap()
databaseID	getJavaName(String s)
sType	setIgnoreCase(b)
sName	isIgnoreCase()
urlProperties	finalize()
sPath	close(closemode)
classLoader	setMetaDirty(resetPrepared)
dbState	setState(state)
logger	getState()
databaseReadOnly	getStateString()
filesReadOnly	getURI()
filesInJar	
sqlEnforceStrictSize	
Class Extracted by the Developers - 2	

Class Extracted by the Developers - 2

Attributes	Methods
Variables	getTable(Session, String)
	getUserTable(Session, String)
	linkTable(Table t)
	findUserTableForIndex(Session, String)
	getTableIndex(Table)
	dropIndex(Session, String, StringName, boolean)
	checkColumnIsInView(String, String)
	getViewsWithView(View)

getViewsWithTable(String, String)
getViewsWithSequence(NumberSequence)
recompileViews(String)
removeExportedKeys(Table)
dropTrigger(Session, String)

Table3 The new classes extracted by our approach

Attributes Methods firstIdentity open() blgnoreCase reopen() bReferentialIntegrity clearStructures() databaseProperties getType() hAlias getPath() userManager getSessionManager() sessionManager sessionManager() sessionManager compiledStatementManager DATABASE_ONLINE setReadOnly() DATABASE_OPENING setFilesReadOnly() isFilesReadOnly() isFilesReadOnly() isFilesReadOnly() isFilesReadOnly() isReferentialIntegrity(ref) isReferentialIntegrity(ref) isReferentialIntegrity(ref) isReferentialIntegrity(ref) isReferentialIntegrity() getJavaName(String s) stype setIgnoreCase(b) shame isIgnoreCase(b) shame urlProperties finalize() spath close(dosemode) statabaseReadOnly getState(state) logger databaseReadOnly getState(state) gegeTate(b) getState() databaseReadOnly getState() filesReadOnly getState()		Table3 The new classes extracted by our approach	
firstIdentity bIgnoreCase bReferentialIntegrity databaseProperties hAlias userManager getProperties() sessionManager sessionManager sessionManager sessionManager compiledStatementManager DATABASE_ONLINE DATABASE_ONLINE SetReadOnly() setFilesReadOnly() siFilesReadOnly() siFilesReadOnly() siFilesReadOnly() sterferentialIntegrity(ref) CLOSEMODE_IMMEDIATELY CLOSEMODE_NORMAL CLOSEMODE_COMPACT CLOSEMODE_COMPACT SType setIgnoreCase(b) sName signoreCase(b) sName signoreCase() siralize() classLoader dbState setState() databaseReadOnly getState() getState() getState() getState() getState() getState() getStateString() filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables Methods Variables Methods Variables Methods Variables Variables Methods Variables Variables JetProperties() getPaperties() getTable(Session, String) getUserTable(Session, String) getUserTable(Session, String) getUserTable(Session, String) getUserTable(Session, String) gitNerDatabase() getState(Table (Table t)	Class Extracted our approach - 1		
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userManager nameManager sessionManager sessionManager sessionManager sessionManager compiledStatementManager DATABASE_ONLINE DATABASE_OPENING DATABASE_CLOSING DATABASE_SHUTDOWN CLOSEMODE_IMMEDIATELY CLOSEMODE_OMPACT CLOSEMODE_SCRIPT databaseID stype svalignoreCase(b) sName urlProperties spath classLoader databaseRadOnly dissiles(state) logger databaseRadOnly getUserManager() setReferentialIntegrity(ref) disclescase(b) svalignoreCase(b) svalignoreCase(b) spath classLoader dbState logger databaseReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods getJaeVarTable(Session, String) getUserTable(Session, String) getUserTable(Session, String) linkTable(Table t)	databaseProperties	getType()	
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DATABASE_OPENING DATABASE_CLOSING isFilesReadOnly() isFilesInJar() CLOSEMODE_IMMEDIATELY CLOSEMODE_NORMAL CLOSEMODE_COMPACT isReferentialIntegrity(ref) isReferentialIntegrity() getJasaName(String s) sType setIgnoreCase(b) sName isIgnoreCase() urlProperties finalize() setMetaDirty(resetPrepared) dbState logger databaseReadOnly gietState(state) getState() databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	compiledStatementManager	connect(String username, String password)	
DATABASE_CLOSING DATABASE_SHUTDOWN CLOSEMODE_IMMEDIATELY CLOSEMODE_NORMAL CLOSEMODE_COMPACT CLOSEMODE_SCRIPT databaseID stype sName islgnoreCase(b) sName islgnoreCase() urlProperties sPath close(closemode) dasbLoader dbState logger databaseReadOnly filesReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables isFilesReadOnly isFilesReadOnly isFilesReadOnly getUserManager() setWetaDirty(resetPrepared) setState(state) getState() databaseReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	DATABASE_ONLINE	setReadOnly()	
DATABASE_SHUTDOWN CLOSEMODE_IMMEDIATELY CLOSEMODE_NORMAL SetReferentialIntegrity(ref) SETUSEMODE_COMPACT CLOSEMODE_SCRIPT SETUSEMODE_SCRIPT SETUSEMODE S	DATABASE_OPENING	setFilesReadOnly()	
CLOSEMODE_IMMEDIATELY CLOSEMODE_NORMAL SetReferentialIntegrity(ref) SetReferentialIntegrity() SetReferentialIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(ref) SetReferentalIntegrity(resetPrepared) SetReferentalIntegrity(r	DATABASE_CLOSING	isFilesReadOnly()	
CLOSEMODE_NORMAL CLOSEMODE_COMPACT isReferentialIntegrity() GetAliasMap() databaseID setIgnoreCase(b) sName isIgnoreCase() urlProperties finalize() sPath close(closemode) classLoader dbState logger databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables setReferentialIntegrity(ref) isReferentialIntegrity(ref) isReferentialIntegrity isReferentialIntegrity isReferentialIntegrity isReferentialIntegrity isReferentialIntegrity isReferentialIntegrity isReferent	DATABASE_SHUTDOWN	isFilesInJar()	
CLOSEMODE_COMPACT CLOSEMODE_SCRIPT databaseID setJavaName(String s) sType setIgnoreCase(b) sName isIgnoreCase() urlProperties sPath close(closemode) classLoader dbState setState(state) logger databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables isReferentialIntegrity() getJainsMap() getJa	CLOSEMODE_IMMEDIATELY	getUserManager()	
CLOSEMODE_SCRIPT databaseID getJavaName(String s) sType setIgnoreCase(b) sName uisIgnoreCase() urlProperties sPath close(closemode) classLoader dbState logger databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getJavaName(String s) getJavaName(String s) getJavaName(String s) setIgnoreCase(b) setIgnor	CLOSEMODE_NORMAL	setReferentialIntegrity(ref)	
databaseID sType setIgnoreCase(b) sName isIgnoreCase() urlProperties sPath close(closemode) classLoader dbState logger databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getJavaName(String s) setIgnoreCase(b) setIgnoreCase(closemode) close(closemode) close(closemode) setMetaDirty(resetPrepared) dbState setState(state) getState() getState() getState() getStateString() getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	CLOSEMODE_COMPACT	isReferentialIntegrity()	
sType setIgnoreCase(b) sName isIgnoreCase() urlProperties finalize() sPath close(closemode) classLoader setMetaDirty(resetPrepared) dbState setState(state) logger getState() databaseReadOnly getStateString() filesReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	CLOSEMODE_SCRIPT	getAliasMap()	
sName isIgnoreCase() urlProperties finalize() sPath close(closemode) classLoader setMetaDirty(resetPrepared) dbState setState(state) logger getState() databaseReadOnly getStateString() filesReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	databaseID	getJavaName(String s)	
urlProperties sPath close(closemode) classLoader setMetaDirty(resetPrepared) dbState setState(state) logger getState() databaseReadOnly getStateString() filesReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	sType	setIgnoreCase(b)	
sPath close(closemode) classLoader setMetaDirty(resetPrepared) dbState setState(state) logger getState() databaseReadOnly getStateString() filesReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	sName	isIgnoreCase()	
classLoader setMetaDirty(resetPrepared) dbState setState(state) logger getState() databaseReadOnly getStateString() filesReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	urlProperties	finalize()	
dbState setState(state) logger getState() databaseReadOnly getStateString() filesReadOnly getURI() filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	sPath	close(closemode)	
logger databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	classLoader	setMetaDirty(resetPrepared)	
databaseReadOnly filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	dbState	setState(state)	
filesReadOnly filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	logger	getState()	
filesInJar sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	databaseReadOnly	getStateString()	
sqlEnforceStrictSize Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	filesReadOnly	getURI()	
Class Extracted our approach - 2 Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	filesInJar		
Attributes Methods Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	sqlEnforceStrictSize		
Variables getTable(Session, String) getUserTable(Session, String) linkTable(Table t)	Class Extracted our approach - 2		
getUserTable(Session, String) linkTable(Table t)	Attributes	Methods	
linkTable(Table t)	Variables	getTable(Session, String)	
		getUserTable(Session, String)	
findUserTableForIndex(Session, String)		linkTable(Table t)	
		findUserTableForIndex(Session, String)	

getTableIndex(Table)
dropIndex(Session, String, StringName, boolean)
checkColumnIsInView(String, String)
getViewsWithView(View)
getViewsWithTable(String, String)
getViewsWithSequence(NumberSequence)
recompileViews(String)
removeExportedKeys(Table)
dropTrigger(Session, String)

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

Table 4 The new classes extracted by Bavota's approach[14]		
Class Extracted Bavota's approach - 1		
Attributes	Methods	
	checkColumnIsInView(String, String)	
	connect(String, String)	
	dropIndex(Session, String, String, boolean)	
	dropTrigger(Session, String)	
	finalize()	
	findUserTableForIndex(Session, String)	
	getAliasMap()	
	getJavaName(String)	
	getPath()	
	getProperties()	
	getSessionManager()	
	getState()	
	getStateString()	
	getTable(Session, String)	
	getTableIndex(Table)	
	getType()	
	getURI()	
	getUserManager()	
	getUserTable(Session, String)	
	isFilesInJar()	
	isFilesReadOnly()	
	isIgnoreCase()	
	isReferentialIntegrity()	
	linkTable(Table)	
	recompileViews(String)	
	removeExportedKeys(Table)	
	setFilesReadOnly()	
	setIgnoreCase(boolean)	
	setMetaDirty(boolean)	
	setReadOnly()	
	setReferentialIntegrity(boolean)	

	setState(int)
	close(int)
	open()
Class Extracted Bavota's approac	
Attributes	Methods
CLOSEMODE_COMPACT	getViewsWithTable(String, String)
DATABASE_ONLINE	getViewsWithSequence(NumberSequence)
DATABASE_CLOSING	getViewsWithView(View)
nameManager	clearStructures()
hAlias	reopen()
CLOSEMODE_IMMEDIATELY	isShutdown()
DATABASE_OPENING	
CLOSEMODE_SCRIPT	
CLOSEMODE_NORMAL	
DATABASE_SHUTDOWN	
databaseID	
databaseProperties	
sqlEnforceStrictSize	
firstIdentity	
sName	
sType	
sPath	
urlProperties	
filesInJar	
classLoader	
userManager	
logger	
sessionManager	
filesReadOnly	
databaseReadOnly	
compiledStatementManager	
bIgnoreCase	
bReferentialIntegrity	
Variables	

Table 5 The new classes extracted by Fokaefs' approach

	J 11
Class Extracted Fokaefs' approach - 1	
Attributes	Methods
CLOSEMODE_COMPACT	getStateString()
DATABASE_ONLINE	open()
DATABASE_CLOSING	isShutdown()
hAlias	dbState
CLOSEMODE_IMMEDIATELY	getState()
DATABASE_OPENING	setState(int)

CLOSEMODE_SCRIPT	finalize()
CLOSEMODE_NORMAL	getJavaName(String)
DATABASE_SHUTDOWN	getAliasMap()
databaseID	getProperties()
databaseProperties	sqlEnforceStrictSize
sName	firstIdentity
sType	getURI()
sPath	getType()
urlProperties	getPath()
filesInJar	isFilesInJar()
classLoader	getUserManager()
userManager	getSessionManager()
logger	connect(String, String)
sessionManager	close(int)
filesReadOnly	setReadOnly()
bIgnoreCase	setFilesReadOnly()
bReferentialIntegrity	isFilesReadOnly()
Variables	databaseReadOnly
	compiledStatementManager
	setMetaDirty(boolean)
	isIgnoreCase()
	setIgnoreCase(boolean)
	setReferentialIntegrity(boolean)
	isReferentialIntegrity()
Class Extracted Fokaefs' approach	h - 2

Class Extracted Fokaefs' approach - 2

Attributes	Methods
nameManager	getUserTable(Session, String)
	dropIndex(Session, String, String, boolean)
	checkColumnIsInView(String, String)
	recompileViews(String)
	dropTrigger(Session, String)
	findUserTableForIndex(Session, String)
	reopen()
	clearStructures()
	removeExportedKeys(Table)
	getViewsWithView(View)
	getViewsWithTable(String, String)
	getViewsWithSequence(NumberSequence)
	getTableIndex(Table)
	getTable(Session, String)
	linkTable(Table)