Can mybatis support mapper xml extend feature? #35

**Closed**

[**akuma**](https://github.com/akuma) opened this issue on 26 Apr 2013 · 6 comments

**Comments**

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Assignees

@emacarron [**emacarron**](https://github.com/mybatis/mybatis-3/issues/assigned/emacarron)

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Labels

[**enhancement**](https://github.com/mybatis/mybatis-3/labels/enhancement)

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Projects

None yet

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Milestone

[**3.2.3**](https://github.com/mybatis/mybatis-3/milestone/3)

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6 participants

[@akuma](https://github.com/akuma)[@emacarron](https://github.com/emacarron)[@pinootto](https://github.com/pinootto)[@themez](https://github.com/themez)[@hengchengfei](https://github.com/hengchengfei)[@ilkomiliev](https://github.com/ilkomiliev)

[](https://github.com/akuma)

[**akuma**](https://github.com/akuma)**commented**[**on 26 Apr 2013**](https://github.com/mybatis/mybatis-3/issues/35#issue-13673477)

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| For example, I have one common mapper 'CommonUserMapper':   * CommonUserMapper.java (interface) * CommonUserMapper.xml (mapper xml)   Now I want to add some custom methods without changing CommonUserMapper. So I write a new mapper called CustomUserMapper extends from CommonUserMapper:   * CustomUserMapper.java (interface) * CustomUserMapper.xml (mapper xml)   For this working, I can copy all the codes from the CommonUserMapper.xml to CustomUserMapper.xml. Of course I can reference some sqls by namespace + ids, but I can't reference the whole select, insert, update, delete...right? So I have to write many duplicate codes.  If the mapper xml can be extended, I think to do this work is more easy. e.g.  <mapper namespace="demo.CustomUserMapper" extends="demo.CommonUserMapper">  <!-- Now I don't have to copy other statements used by  the methods extended from CommonUserMapper.java -->  <!-- I just define the custom statements -->  <select id="findByXxx" parameterType="string" resultType="User">  <!-- findColumn is defined in CommonUserMapper.xml -->  <include refid="findColumn" />  where xxx = #{value}  </select>  ...  </mapper> |

[](https://github.com/emacarron)

Owner

[**emacarron**](https://github.com/emacarron)**commented**[**on 30 Apr 2013**](https://github.com/mybatis/mybatis-3/issues/35#issuecomment-17221830)

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| Copied from the user mail list:  Current version does not have that option.  Let me try to explain how inheritance works.  interface Parent {  @select()  annotatedParentMethod();  xmlParentMethod();  }  interface Child extends Parent {  }  When loading the Child type MyBatis does two things:   * Creates a new mapped statement called "Child.annotatedParentMethod" * Searches for Child.xml and loads the statemens of the Child namespace   When executing MyBatis gets the id of the statement by concatenating the name of the mapper and the called method. So if you call annotatedParentMethod on Child it will execute the statement name "Child.annotatedParentMethod"  Note that when using annotations there is no need to load the Parent to use the method annotatedParentMethod. In fact, if the parent is loaded a new mapped statement called Parent.annotatedParentMethod will be created. (with the same exact content than Child.annotatedParentMethod())  Probably we could change the way MyBatis gets the id of the statement:   * try with self name and method name (Child.xmlParentMethod) (this is already being done) * If not found, then try with method.getDeclaringClass().getName() (Parent.xmlParentMethod)   Unlike with annotated methods, with xml you have to load the Parent type (or the Parent.xml) so that MyBatis creates the Parent.xmlParentMethod statement. |

[](https://github.com/akuma)

[**akuma**](https://github.com/akuma)**commented**[**on 30 Apr 2013**](https://github.com/mybatis/mybatis-3/issues/35#issuecomment-17264058)

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| OK. Thanks for your patiently explanation. |

**@emacarron**[**emacarron**](https://github.com/emacarron)**closed this in**[**605db6f**](https://github.com/mybatis/mybatis-3/commit/605db6f0d93844e43373fca4d317dbd905666e8c)[**on 1 May 2013**](https://github.com/mybatis/mybatis-3/issues/35#event-47230598)

**@ghost ghost assigned**[**emacarron**](https://github.com/emacarron)[**on 22 Jun 2013**](https://github.com/mybatis/mybatis-3/issues/35#event-53710428)

[](https://github.com/pinootto)

[**pinootto**](https://github.com/pinootto)**commented**[**on 13 Nov 2013**](https://github.com/mybatis/mybatis-3/issues/35#issuecomment-28453918)

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| I am using mybatis version 3.2.3 and I would like to use the mapper extending feature.  My xml code is:  <?xml version="1.0" encoding="UTF-8" ?>  <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd" >  <mapper namespace="com.pino.mappers.AssetMapper" extends="com.pino.mappers.mybatis.AssetMapper">  </mapper>  where com.pino.mappers.mybatis.AssetMapper is generated automatically by mybatis generator.  Eclipse gives me the error: Attribute "extends" must be declared for element type "mapper".  How can I resolve this problem? Is this feature working in mybatis version 3.2.3? |

**@themez**[**themez**](https://github.com/themez)**referenced this issue**[**on 3 Apr 2014**](https://github.com/mybatis/mybatis-3/issues/35#ref-issue-30769144)

**Closed**

[**Extended mapper cannot get result map from parent**#174](https://github.com/mybatis/mybatis-3/issues/174)

[](https://github.com/themez)

[**themez**](https://github.com/themez)**commented**[**on 12 May 2014**](https://github.com/mybatis/mybatis-3/issues/35#issuecomment-42793186)

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| This issue seems not completely fixed yet. Here's a case:  I add a configuration option on generator to make it generate Mapper interfaces extends a BaseMapper interface  public interface BaseMapper<T, PK extends Serializable, E> {  int countByExample(E example);  int deleteByExample(E example);  int deleteByPrimaryKey(PK id);  int insert(T record);  int insertSelective(T record);  List<T> selectByExample(E example);  T selectByPrimaryKey(PK id);  int updateByExampleSelective(@Param("record") T record, @Param("example") E example);  int updateByExample(@Param("record") T record, @Param("example") E example);  int updateByPrimaryKeySelective(T record);  int updateByPrimaryKey(T record);  }  //generated mapper  interface MyMapper extends BaseMapper{  }  //my custom mapper  interface MyCustomMapper{  extQuery();  }  It only query statement in MyCustomMapper and BaseMapper, but of course there's no statement in BaseMapper namespace.  P.S. [qq20140512105116](https://cloud.githubusercontent.com/assets/1323793/2940471/973a040c-d982-11e3-8f15-8cf64882d175.png) |

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[](https://github.com/hengchengfei)

[**hengchengfei**](https://github.com/hengchengfei)**commented**[**on 4 Dec 2014**](https://github.com/mybatis/mybatis-3/issues/35#issuecomment-65582412)

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| #Child Dao package com.self.app.dao; import com.self.app.dto.ContentDto;  public interface ContentDao extends ContentDtoMapper { ContentDto getC(); }  #Child Xml  <resultMap id="ResultMap" type="com.self.app.dto.ContentDto" extends="com.self.app.dao.ContentDtoMapper.BaseResultMap" />  <select id="getC" resultMap="ResultMap">  select \* from content where id=1  </select> |

[](https://github.com/ilkomiliev)

[**ilkomiliev**](https://github.com/ilkomiliev)**commented**[**on 6 Oct 2015**](https://github.com/mybatis/mybatis-3/issues/35#issuecomment-145791758)

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| As themez pointed out above this issue is not completed - I've added an additional implementation to check the superinterfaces of the mapperInterface and try to get the statement from there, if the current implementation still returns null - what should be the best way to share it? |

**This was referenced on 12 Sep 2016**

**Closed**

[**Why MyBatis don't support "import" function in mapper.xml**#772](https://github.com/mybatis/mybatis-3/issues/772)

**Closed**

[**Failed to find a statement mapped to a super interface**#481](https://github.com/mybatis/mybatis-3/pull/481)

[**harawata**](https://github.com/harawata)**added a commit that referenced this issue**[**on 12 Mar**](https://github.com/mybatis/mybatis-3/issues/35#ref-commit-4b465eb)

[@harawata](https://github.com/harawata)

[fixes](https://github.com/mybatis/mybatis-3/commit/4b465eb36f499607a490c8f784504be108a26cd3) [#481](https://github.com/mybatis/mybatis-3/pull/481) [Looks for a matching statement defined in super interfaces…](https://github.com/mybatis/mybatis-3/commit/4b465eb36f499607a490c8f784504be108a26cd3)…

[4b465eb](https://github.com/mybatis/mybatis-3/commit/4b465eb36f499607a490c8f784504be108a26cd3)

[](https://github.com/wangyu19810820)

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