PHYSICAL MODEL

FOR PROJECT

MODEL
Universal

Version

-

Created: 15/11/2013
Last Modified: 16/11/2013

Entity Report

Entity Name	Primary Key	# Attributes
_map_group2time	gid, trid	2
_map_group2uri	gid, urid	2
_map_group2word	gid, wrid	2
_map_user2group	uid, gid	2
Group	gid	2
rules_TIME	trid	3
rules_URIS	urid	2
rules_WORDS	wrid	2
User	uid	4

Entity '_map_group2time'

Caption	_map_group2time
Primary Key	pk_map_group2time

Primary Key 'pk_map_group2time'

Attribute Name	type	Parent Entity
gid	PFK	Group
trid	PFK	rules_TIME

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PFK	gid		Integer	YES	NO	NO	NO	
PFK	trid		Integer	YES	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
time_allowed	Identifying	rules_TIME	_map_group2time	1:N
allowed_times	Identifying	Group	_map_group2time	1:N

Indexes

Index Name	Attributes	Unique
idx_group2time_trid		NO
idx_group2time_gid		NO

Attribute 'gid'

Caption	gid		
Entity Name	_map_group2time		
Primary Key	YES		
Foreign Key	YES	Parent Entity	Group
Data Type	Integer		
Not Null	YES		
Unique	NO		

Attribute 'trid'

Caption	trid		
Entity Name	_map_group2time		
Primary Key	YES		
Foreign Key	YES	Parent Entity	rules_TIME
Data Type	Integer		
Not Null	YES		
Unique	NO		

Entity '_map_group2uri'

Caption	_map_group2uri
Primary Key	pk_map_group2uri

Primary Key 'pk_map_group2uri'

Attribute Name	type	Parent Entity
gid	PFK	Group
urid	PFK	rules_URIS

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PFK	gid		Integer	YES	NO	NO	NO	
PFK	urid		Integer	YES	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
allowed_uris	Identifying	Group	_map_group2uri	1:N
uris_allowed	Identifying	rules_URIS	_map_group2uri	1:N

Indexes

Index Name	Attributes	Unique
idx_group2uri_urid		NO
idx_group2uri_gid		NO

Attribute 'gid'

Caption	gid		
Entity Name	_map_group2uri		
Primary Key	YES		
Foreign Key	YES	Parent Entity	Group
Data Type	Integer		
Not Null	YES		
Unique	NO		

Attribute 'urid'

Caption	urid		
Entity Name	_map_group2uri		
Primary Key	YES		
Foreign Key	YES	Parent Entity	rules_URIS
Data Type	Integer		
Not Null	YES		
Unique	NO		

Entity '_map_group2word'

Caption	_map_group2word
Primary Key	pk_map_group2word

Primary Key 'pk_map_group2word'

Attribute Name	type	Parent Entity
gid	PFK	Group
wrid	PFK	rules_WORDS

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PFK	gid		Integer	YES	NO	NO	NO	
PFK	wrid		Integer	YES	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
words_allowed	Identifying	rules_WORDS	_map_group2word	1:N
allowed_words	Identifying	Group	_map_group2word	1:N

Indexes

Index Name	Attributes	Unique
idx_group2word_wrid		NO
idx_group2word_gid		NO

Attribute 'gid'

Caption	gid		
Entity Name	_map_group2word		
Primary Key	YES		
Foreign Key	YES	Parent Entity	Group
Data Type	Integer		
Not Null	YES		
Unique	NO		

Attribute 'wrid'

Caption	wrid		
Entity Name	_map_group2word		
Primary Key	YES		
Foreign Key	YES	Parent Entity	rules_WORDS
Data Type	Integer		
Not Null	YES		
Unique	NO		

Entity '_map_user2group'

Caption	_map_user2group
Primary Key	pk_map_user2group

Primary Key 'pk_map_user2group'

Attribute Name	type	Parent Entity
uid	PFK	User
gid	PFK	Group

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PFK	uid		Integer	YES	NO	NO	NO	
PFK	gid		Integer	YES	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
Pertenece	Identifying	User	_map_user2group	1:N
Contiene	Identifying	Group	_map_user2group	1:N

Indexes

Index Name	Attributes	Unique
idx_user2group_uid		NO
idx_user2group_gid		NO

Attribute 'uid'

Caption	uid		
Entity Name	_map_user2group		
Primary Key	YES		
Foreign Key	YES	Parent Entity	User
Data Type	Integer		
Not Null	YES		
Unique	NO		

Attribute 'gid'

Caption	gid		
Entity Name	_map_user2group		
Primary Key	YES		
Foreign Key	YES	Parent Entity	Group
Data Type	Integer		
Not Null	YES		
Unique	NO		

Entity 'Group'

Caption	Group
Primary Key	pk_gid

Primary Key 'pk_gid'

Attribute Name	type	Parent Entity
gid	PK	-----

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PK	gid		Integer	YES	YES	NO	NO	
	description		Varchar(80)	NO	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
allowed_times	Identifying	Group	_map_group2time	1:N
allowed_uris	Identifying	Group	_map_group2uri	1:N
allowed_words	Identifying	Group	_map_group2word	1:N
Contiene	Identifying	Group	_map_user2group	1:N

Keys

Key Type	Constraint Name	Attributes
PK	pk_gid	gid
AK	gid	gid

Indexes

Index Name	Attributes	Unique
idx_gid		YES -

Attribute 'gid'

Caption	gid
Entity Name	Group
Primary Key	YES
Foreign Key	NO
Data Type	Integer
Not Null	YES
Unique	YES

Attribute 'description'

Caption	description
Entity Name	Group
Primary Key	NO
Foreign Key	NO
Data Type	Varchar(80)
Not Null	NO
Unique	NO

Entity 'rules_TIME'

Caption	rules_TIME
Primary Key	pk_trid

Primary Key 'pk_trid'

Attribute Name	type	Parent Entity
trid	PK	-----

Attributes

Key	Attribute Name	Domain	Data Type	N1)	U2)	C3)	D4)	Comments
PK	trid		Integer	YES	YES	NO	NO	
	rule_time_start		Time	YES	NO	NO	NO	
	rule_time_end		Time	YES	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
time_allowed	Identifying	rules_TIME	_map_group2time	1:N

Keys

Key Type	Constraint Name	Attributes
PK	pk_trid	trid
AK	trid	trid

Indexes

Index Name	Attributes	Unique
idx_trid	trid	YES
idx_time_start	rule_time_start	NO
idx_time_end	rule_time_end	NO

Attribute 'trid'

Caption	trid
Entity Name	rules_TIME
Primary Key	YES
Foreign Key	NO
Data Type	Integer
Not Null	YES
Unique	YES

Attribute 'rule_time_start'

Caption	rule_time_start
Entity Name	rules_TIME
Primary Key	NO
Foreign Key	NO
Data Type	Time
Not Null	YES
Unique	NO

Attribute 'rule_time_end'

Caption	rule_time_end
Entity Name	rules_TIME
Primary Key	NO
Foreign Key	NO
Data Type	Time
Not Null	YES
Unique	NO

Entity 'rules_URIS'

Caption	rules_URIS
Primary Key	pk_urid

Primary Key 'pk_urid'

Attribute Name	type	Parent Entity
urid	PK	-----

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PK	urid		Integer	YES	YES	NO	NO	
	rule_uri		Varchar(200)	NO	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
uris_allowed	Identifying	rules_URIS	_map_group2uri	1:N

Keys

Key Type	Constraint Name	Attributes
PK	pk_urid	urid
AK	urid	urid

Indexes

Index Name	Attributes	Unique
idx_uid	urid	YES
idx_uri	rule_uri	YES

Attribute 'urid'

Caption	urid
Entity Name	rules_URIS
Primary Key	YES
Foreign Key	NO
Data Type	Integer
Not Null	YES
Unique	YES

Attribute 'rule_uri'

Caption	rule_uri
Entity Name	rules_URIS
Primary Key	NO
Foreign Key	NO
Data Type	Varchar(200)
Not Null	NO
Unique	NO

Entity 'rules_WORDS'

Caption	rules_WORDS
Primary Key	pk_wrid

Primary Key 'pk_wrid'

Attribute Name	type	Parent Entity
wrid	PK	-----

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PK	wrid		Integer	YES	YES	NO	NO	
	words		Varchar(120)	NO	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
words_allowed	Identifying	rules_WORDS	_map_group2word	1:N

Keys

Key Type	Constraint Name	Attributes
PK	pk_wrid	wrid
AK	wrid	wrid

Indexes

Index Name	Attributes	Unique
idx_wrid	wrid	YES
idx_words	words	YES

Attribute 'wrid'

Caption	wrid
Entity Name	rules_WORDS
Primary Key	YES
Foreign Key	NO
Data Type	Integer
Not Null	YES
Unique	YES

Attribute 'words'

Caption	words
Entity Name	rules_WORDS
Primary Key	NO
Foreign Key	NO
Data Type	Varchar(120)
Not Null	NO
Unique	NO

Entity 'User'

Caption	User
Primary Key	pk_uid

Primary Key 'pk_uid'

Attribute Name	type	Parent Entity
uid	PK	-----

Attributes

Key	Attribute Name	Domain	Data Type	N[1]	U[2]	C[3]	D[4]	Comments
PK	uid		Integer	YES	YES	NO	NO	
	user		Varchar(20)	YES	NO	NO	NO	
	password_hash		Varchar(20)	NO	NO	NO	NO	
	description		Varchar(80)	NO	NO	NO	NO	

Relationships

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
Pertenece	Identifying	User	_map_user2group	1:N

Keys

Key Type	Constraint Name	Attributes
PK	pk_uid	uid
AK	uid	uid

Indexes

Index Name	Attributes	Unique
idx_uid	uid	YES
idx_user	user	YES

Attribute 'uid'

Caption	uid
Entity Name	User
Primary Key	YES
Foreign Key	NO
Data Type	Integer
Not Null	YES
Unique	YES

Attribute 'user'

Caption	user
Entity Name	User
Primary Key	NO
Foreign Key	NO
Data Type	Varchar(20)
Not Null	YES
Unique	NO

Attribute 'password_hash'

Caption	password_hash
Entity Name	User
Primary Key	NO
Foreign Key	NO
Data Type	Varchar(20)
Not Null	NO
Unique	NO

Attribute 'description'

Caption	description
Entity Name	User
Primary Key	NO
Foreign Key	NO
Data Type	Varchar(80)
Not Null	NO
Unique	NO

[1] Not Null
[2] Unique
[3] Check
[4] Default

Attribute Report

Attribute Name	Entity Name	Domain	Data Type	PK	FK
gid	_map_group2time		Integer	YES	YES
trid	_map_group2time		Integer	YES	YES
gid	_map_group2uri		Integer	YES	YES
urid	_map_group2uri		Integer	YES	YES
gid	_map_group2word		Integer	YES	YES
wrid	_map_group2word		Integer	YES	YES
gid	_map_user2group		Integer	YES	YES
uid	_map_user2group		Integer	YES	YES
description	Group		Varchar(80)	NO	NO
gid	Group		Integer	YES	NO
rule_time_end	rules_TIME		Time	NO	NO
rule_time_start	rules_TIME		Time	NO	NO
trid	rules_TIME		Integer	YES	NO
rule_uri	rules_URIS		Varchar(200)	NO	NO
urid	rules_URIS		Integer	YES	NO
words	rules_WORDS		Varchar(120)	NO	NO
wrid	rules_WORDS		Integer	YES	NO
description	User		Varchar(80)	NO	NO
password_hash	User		Varchar(20)	NO	NO
uid	User		Integer	YES	NO
user	User		Varchar(20)	NO	NO
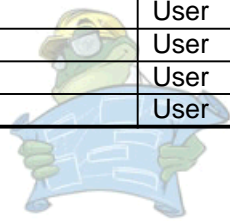
Key Report

Key Type	Key Name	Entity Name
PK	pk_map_group2time	_map_group2time
PK	pk_map_group2uri	_map_group2uri
PK	pk_map_group2word	_map_group2word
PK	pk_map_user2group	_map_user2group
AK	gid	Group
PK	pk_gid	Group
PK	pk_trid	rules_TIME
AK	trid	rules_TIME
PK	pk_urid	rules_URIS
AK	urid	rules_URIS
PK	pk_wrid	rules_WORDS
AK	wrid	rules_WORDS
PK	pk_uid	User
AK	uid	User

Key 'pk_map_group2time'

Caption	pk_map_group2time		
Key Type	Primary Key		
Entity Name	_map_group2time		
Attribute		Order	Foreign Key
gid		ASC	YES
trid		ASC	YES

Key 'pk_map_group2uri'

Caption	pk_map_group2uri		
Key Type	Primary Key		
Entity Name	_map_group2uri		
Attribute		Order	Foreign Key
gid		ASC	YES
urid		ASC	YES

Key 'pk_map_group2word'

Caption	pk_map_group2word		
Key Type	Primary Key		
Entity Name	_map_group2word		
Attribute		Order	Foreign Key
gid		ASC	YES
wrid		ASC	YES

Key 'pk_map_user2group'

Caption	pk_map_user2group		
Key Type	Primary Key		
Entity Name	_map_user2group		
Attribute		Order	Foreign Key
uid		ASC	YES
gid		ASC	YES

Key 'gid'

Caption	gid		
Key Type	Alternate Key		
Entity Name	Group		
Attribute		Order	Foreign Key
gid		ASC	NO

Key 'pk_gid'

Caption	pk_gid		
Key Type	Primary Key		
Entity Name	Group		
Attribute		Order	Foreign Key
gid		ASC	NO

Key 'pk_trid'

Caption	pk_trid		
Key Type	Primary Key		
Entity Name	rules_TIME		
Attribute		**Order**	**Foreign Key**
trid		ASC	NO

Key 'trid'

Caption	trid		
Key Type	Alternate Key		
Entity Name	rules_TIME		
Attribute		**Order**	**Foreign Key**
trid		ASC	NO

Key 'pk_urid'

Caption	pk_urid		
Key Type	Primary Key		
Entity Name	rules_URIS		
Attribute		**Order**	**Foreign Key**
urid		ASC	NO

Key 'urid'

Caption	urid		
Key Type	Alternate Key		
Entity Name	rules_URIS		
Attribute		**Order**	**Foreign Key**
urid		ASC	NO

Key 'pk_wrid'

Caption	pk_wrid		
Key Type	Primary Key		
Entity Name	rules_WORDS		
Attribute		**Order**	**Foreign Key**
wrid		ASC	NO

Key 'wrid'

Caption	wrid		
Key Type	Alternate Key		
Entity Name	rules_WORDS		
Attribute		**Order**	**Foreign Key**
wrid		ASC	NO

Key 'pk_uid'

Caption	pk_uid		
Key Type	Primary Key		
Entity Name	User		
Attribute		Order	Foreign Key
uid		ASC	NO

Key 'uid'

Caption	uid		
Key Type	Alternate Key		
Entity Name	User		
Attribute		Order	Foreign Key
uid		ASC	NO

Index Report

Index Name	Unique	Entity Name
idx_group2time_gid	NO	_map_group2time
idx_group2time_trid	NO	_map_group2time
idx_group2uri_gid	NO	_map_group2uri
idx_group2uri_urid	NO	_map_group2uri
idx_group2word_gid	NO	_map_group2word
idx_group2word_wrid	NO	_map_group2word
idx_user2group_gid	NO	_map_user2group
idx_user2group_uid	NO	_map_user2group
idx_gid	YES	Group
idx_time_end	NO	rules_TIME
idx_time_start	NO	rules_TIME
idx_trid	YES	rules_TIME
idx_uid	YES	rules_URIS
idx_uri	YES	rules_URIS
idx_words	YES	rules_WORDS
idx_wrid	YES	rules_WORDS
idx_uid	YES	User
idx_user	YES	User
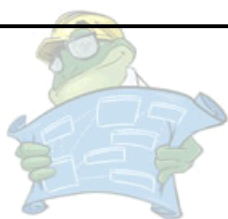
Index 'idx_group2time_gid'

Caption	idx_group2time_gid		
Entity Name	_map_group2time		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_group2time_trid'

Caption	idx_group2time_trid		
Entity Name	_map_group2time		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_group2uri_gid'

Caption	idx_group2uri_gid		
Entity Name	_map_group2uri		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_group2uri_urid'

Caption	idx_group2uri_urid		
Entity Name	_map_group2uri		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_group2word_gid'

Caption	idx_group2word_gid		
Entity Name	_map_group2word		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_group2word_wrid'

Caption	idx_group2word_wrid		
Entity Name	_map_group2word		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_user2group_gid'

Caption	idx_user2group_gid		
Entity Name	_map_user2group		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_user2group_uid'

Caption	idx_user2group_uid		
Entity Name	_map_user2group		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_gid'

Caption	idx_gid		
Entity Name	Group		
Unique	YES		
Attribute	Order	Primary Key	Foreign Key

Index 'idx_time_end'

Caption	idx_time_end		
Entity Name	rules_TIME		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key
rule_time_end	ASC	NO	NO

Index 'idx_time_start'

Caption	idx_time_start		
Entity Name	rules_TIME		
Unique	NO		
Attribute	Order	Primary Key	Foreign Key
rule_time_start	ASC	NO	NO

Index 'idx_trid'

Caption	idx_trid		
Entity Name	rules_TIME		
Unique	YES		
Attribute	Order	Primary Key	Foreign Key
trid	ASC	YES	NO

Index 'idx_uid'

Caption	idx_uid		
Entity Name	rules_URIS		
Unique	YES		
Attribute	Order	Primary Key	Foreign Key
urid	ASC	YES	NO

Index 'idx_uri'

Caption	idx_uri		
Entity Name	rules_URIS		
Unique	YES		
Attribute	Order	Primary Key	Foreign Key
rule_uri	ASC	NO	NO

Index 'idx_words'

Caption	idx_words		
Entity Name	rules_WORDS		
Unique	YES		
Attribute	**Order**	**Primary Key**	**Foreign Key**
words	ASC	NO	NO

Index 'idx_wrid'

Caption	idx_wrid		
Entity Name	rules_WORDS		
Unique	YES		
Attribute	**Order**	**Primary Key**	**Foreign Key**
wrid	ASC	YES	NO

Index 'idx_uid'

Caption	idx_uid		
Entity Name	User		
Unique	YES		
Attribute	**Order**	**Primary Key**	**Foreign Key**
uid	ASC	YES	NO

Index 'idx_user'

Caption	idx_user		
Entity Name	User		
Unique	YES		
Attribute	**Order**	**Primary Key**	**Foreign Key**
user	ASC	NO	NO

Relationship Report

Relationship Name	Relationship Type	Parent Entity	Child Entity	Card.
allowed_times	Identifying	Group	_map_group2time	1:N
allowed_uris	Identifying	Group	_map_group2uri	1:N
allowed_words	Identifying	Group	_map_group2word	1:N
Contiene	Identifying	Group	_map_user2group	1:N
Pertenece	Identifying	User	_map_user2group	1:N
time_allowed	Identifying	rules_TIME	_map_group2time	1:N
uris_allowed	Identifying	rules_URIS	_map_group2uri	1:N
words_allowed	Identifying	rules_WORDS	_map_group2word	1:N

Relationship Name 'allowed_times'

Caption	allowed_times		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	Group		
Child Entity	_map_group2time		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_gid'	gid	gid

Relationship Name 'allowed_uris'

Caption	allowed_uris		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	Group		
Child Entity	_map_group2uri		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_gid'	gid	gid

Relationship Name 'allowed_words'

Caption	allowed_words		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	Group		
Child Entity	_map_group2word		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_gid'	gid	gid

Relationship Name 'Contiene'

Caption	Contiene		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	Group		
Child Entity	_map_user2group		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_gid'	gid	gid

Relationship Name 'Pertenece'

Caption	Pertenece		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	User		
Child Entity	_map_user2group		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_uid'	uid	uid

Relationship Name 'time_allowed'

Caption	time_allowed		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	rules_TIME		
Child Entity	_map_group2time		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_trid'	trid	trid

Relationship Name 'uris_allowed'

Caption	uris_allowed		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	rules_URIS		
Child Entity	_map_group2uri		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_urid'	urid	urid

Relationship Name 'words_allowed'

Caption	words_allowed		
Relationship Type	Identifying	Cardinality	1:N
Mandatory Parent	YES		
Mandatory Child	NO		
Parent Entity	rules_WORDS		
Child Entity	_map_group2word		

Referential Integrity

	Insert	Update	Delete
Parent	----	NONE	NONE
Child	NONE	NONE	----

Keys

Key Type	Parent Key	Child Key
Primary Key 'pk_wrid'	wrid	wrid