



## Default Diagram

Table attempt_log		
Idx	Name	Data Type
* Idx	status	INT
*	output	LONGTEXT
*	created	TIMESTAMP DEFAULT current_timestamp()
*	modified	TIMESTAMP DEFAULT current_timestamp()
*	engine_id	INT DEFAULT 0
* Pk	attempt	INT DEFAULT 1
* Pk	step	BIGINT
Indexes		
Type	Name	On
Pk	pk_step_log	step, attempt
	fk_step_log_wf_status	status
Foreign Keys		
Type	Name	On
	fk_step_log_wf_status ( status ) ref wfi_status ( code )	
	fk_step_log_wf_step ( step ) ref wfi_step ( id )	
Options		
engine=InnoDB		

Table environment		
Idx	Name	Data Type
* Pk	code	INT
* Unq	name	VARCHAR(100)
Indexes		
Type	Name	On
Pk	pk_environment_0	code
Unq	uniq_environment_0	name
Options		
engine=InnoDB		

Table step_belongs_to		
Idx	Name	Data Type
* Pk	phase_id	BIGINT
* Pk	step_id	BIGINT
Indexes		
Type	Name	On
Pk	pk_step_belongs_to	step_id, phase_id
	fk_step_belongs_to_wf_group	phase_id
Foreign Keys		
Type	Name	On
	fk_step_belongs_to_wf_step ( step_id ) ref wfi_step ( id )	
	fk_step_belongs_to_wf_group ( phase_id ) ref wfi_phase ( id )	
Options		
engine=InnoDB		

### Table step\_info

Idx	Name	Data Type
	message	TEXT
	output	LONGTEXT
* Pk	step	BIGINT

#### Indexes

Type	Name	On
Pk	pk_step_info	step

#### Foreign Keys

Type	Name	On
	fk_step_info_wfi_step ( step ) ref wfi_step ( id )	

#### Options

engine=InnoDB

### Table wf\_engine

Idx	Name	Data Type	Description
* Idx	environment	INT	
* Pk	id	INT AUTO_INCREMENT	
* Unq	name	VARCHAR(100)	
*	last_beat	TIMESTAMP DEFAULT current_timestamp()	heat beat every 60 seconds, to show that the engine is alive.
*	status	INT DEFAULT 1	0-dead 1-active 2- retired

#### Indexes

Type	Name	On	Description
Pk	pk_environment	id	
Unq	unq_environment	name	
	fk_wf_engine_environment	environment	

#### Foreign Keys

Type	Name	On	Description
	fk_wf_engine_environment ( environment ) ref environment ( code )		

#### Options

engine=InnoDB  
AUTO\_INCREMENT 1500

### Table wf\_info

Idx	Name	Data Type
* Pk	wfi	BIGINT
	parameters	LONGTEXT
	url_overrides	LONGTEXT
	ref	VARCHAR(60)

#### Indexes

Type	Name	On
Pk	pk_wf_info	wfi

#### Foreign Keys

Type	Name	On
	fk_wf_info_wf_instance ( wfi ) ref wf_instance ( id )	

#### Options

engine=InnoDB

Table wf_instance				
Idx	Name	Data Type	Description	
* Idx	env	INT		
* Idx	wf_version	INT		
* Unq	guid	VARCHAR(42) DEFAULT 'uuid()'		
*	locked_by	INT DEFAULT 0	Engine Owner	
* Pk	id	BIGINT AUTO_INCREMENT		
*	created	TIMESTAMP DEFAULT current_timestamp()		
*	modified	TIMESTAMP DEFAULT current_timestamp()		
* Idx	status	INT		
Indexes				
Type	Name	On	Description	
Pk	pk_wf_instance	id		
Unq	unq_wf_instance	guid		
	fk_wf_instance_wf_version	wf_version		
	fk_wf_instance_wf_status	status		
	fk_wf_instance_environment	env		
Foreign Keys				
Type	Name	On	Description	
	fk_wf_instance_wf_version ( wf_version ) ref wf_version ( id )			
	fk_wf_instance_wf_status ( status ) ref wfi_status ( code )			
	fk_wf_instance_environment ( env ) ref environment ( code )			
Options				
engine=InnoDB AUTO_INCREMENT 1200				

Table wf_version		
Idx	Name	Data Type
* Pk	id	INT AUTO_INCREMENT
* Unq	version	INT
*	definition	LONGTEXT CHARACTER SET utf8mb4 COLLATE utf8mb4_bin
*	created	TIMESTAMP DEFAULT current_timestamp()
*	active	BIT DEFAULT 1
*	published	BIT DEFAULT 0
* Unq	guid	VARCHAR(42) DEFAULT 'uuid()'
* Unq	workflow	INT
Indexes		
Type	Name	On
Pk	pk_workflow_version	id
	fk_workflow_version_workflow	workflow
Unq	unq_wf_version	workflow, version
Unq	unq_wf_version_0	guid
Foreign Keys		
Type	Name	On
	fk_workflow_version_workflow ( workflow ) ref workflow ( id )	
Constraints		
	Name	Definition

## Table wf\_version

cns\_wf\_version\_definition

json\_valid(`definition`)

### Options

engine=InnoDB  
AUTO\_INCREMENT 1200

## Table wfi\_phase

Idx	Name	Data Type
* Idx	wfi	BIGINT
*	code	INT
* Pk	id	BIGINT AUTO_INCREMENT
*	attempt	INT DEFAULT 1
* Idx	status	INT

### Indexes

Type	Name	On
Pk	pk_wf_group	id
	fk_wf_group_wf_instance	wfi
	fk_wf_group_wf_status	status

### Foreign Keys

Type	Name	On
	fk_wf_group_wf_instance ( wfi ) ref wf_instance ( id )	
	fk_wf_group_wf_status ( status ) ref wfi_status ( code )	

### Options

engine=InnoDB  
AUTO\_INCREMENT 1100

## Table wfi\_status

Idx	Name	Data Type
* Pk	code	INT
* Unq	name	VARCHAR(120)

### Indexes

Type	Name	On
Pk	pk_wf_status	code
Unq	unq_wf_status	name

### Options

engine=InnoDB

## Table wfi\_step

Idx	Name	Data Type
* Idx	wfi	BIGINT
* Idx	status	INT
*	code	INT
*	attempt	INT DEFAULT 1
*	created	TIMESTAMP DEFAULT current_timestamp()
*	modified	TIMESTAMP DEFAULT current_timestamp()
*	timeout	TIMESTAMP DEFAULT current_timestamp()
* Pk	id	BIGINT AUTO_INCREMENT
*	engine_id	INT DEFAULT 0

### Indexes

Type	Name	On
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## Table wfi\_step

Pk	pk_wf_step	id
	fk_wf_step_wf_instance	wfi
	fk_wf_step_wf_status	status

### Foreign Keys

Type	Name	On
	fk_wf_step_wf_instance ( wfi ) ref wf_instance ( id )	
	fk_wf_step_wf_status ( status ) ref wfi_status ( code )	

### Options

engine=InnoDB  
AUTO\_INCREMENT 900

## Table workflow

Idx	Name	Data Type
* Pk	id	INT AUTO_INCREMENT
* Unq	code	INT
* Unq	name	VARCHAR(120)

### Indexes

Type	Name	On
Pk	pk_workflow	id
Unq	unq_workflow	name
Unq	unq_workflow_0	code

### Options

engine=InnoDB  
AUTO\_INCREMENT 1200