

teachingscheduledb

academic_years

Column	Type	Null	Default	Links to	Comments	Media type
academic_year_id (Primary)	int(11)	No				
academic_year	int(11)	No				
semester	int(11)	No				
start_date	date	No				
end_date	date	No				
is_active	tinyint(1)	Yes	0			
is_current	tinyint(1)	Yes	0			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	academic_year_id	1	A	No	
academic_year	BTREE	Yes	No	academic_year	1	A	No	
				semester	1	A	No	

classrooms

Column	Type	Null	Default	Links to	Comments	Media type
classroom_id (Primary)	int(11)	No				
room_number	varchar(20)	No				
building	varchar(100)	Yes	ในสาขา			
capacity	int(11)	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	classroom_id	10	A	No	
room_number	BTREE	Yes	No	room_number	10	A	No	

class_sessions

Column	Type	Null	Default	Links to	Comments	Media type
session_id (<i>Primary</i>)	int(11)	No				
schedule_id	int(11)	No		teaching_schedules -> schedule_id		
session_date	date	No				
actual_classroom_id	int(11)	Yes	NULL	classrooms -> classroom_id		
actual_start_time_slot_id	int(11)	Yes	NULL	time_slots -> time_slot_id		
actual_end_time_slot_id	int(11)	Yes	NULL	time_slots -> time_slot_id		
attendance_count	int(11)	Yes	NULL			
notes	text	Yes	NULL			
created_at	datetime	Yes	current_timestamp()			
updated_at	datetime	Yes	NULL			
user_id	int(11)	Yes	NULL	users -> user_id		
google_event_id	varchar(255)	Yes	NULL			
google_event_url	text	Yes	NULL			
google_sync_status	enum('pending', 'synced', 'failed', 'deleted')	Yes	pending			
google_sync_at	datetime	Yes	NULL			
google_sync_error	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	session_id	918	A	No	
schedule_id	BTREE	Yes	No	schedule_id	183	A	No	
				session_date	918	A	No	
actual_classroom_id	BTREE	No	No	actual_classroom_id	20	A	Yes	
actual_start_time_slot_id	BTREE	No	No	actual_start_time_slot_id	18	A	Yes	
actual_end_time_slot_id	BTREE	No	No	actual_end_time_slot_id	24	A	Yes	
user_id	BTREE	No	No	user_id	32	A	Yes	
idx_google_event_id	BTREE	No	No	google_event_id	2	A	Yes	
idx_google_sync_status	BTREE	No	No	google_sync_status	2	A	Yes	
idx_session_date_room_time	BTREE	No	No	session_date	183	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
				actual_classroom_id	918	A	Yes	
				actual_start_time_slot_id	918	A	Yes	
				actual_end_time_slot_id	918	A	Yes	
idx_session_schedule_date	BTREE	No	No	schedule_id	183	A	No	
				session_date	918	A	No	
idx_session_conflict_check	BTREE	No	No	session_date	183	A	No	
				actual_classroom_id	918	A	Yes	
				actual_start_time_slot_id	918	A	Yes	
				actual_end_time_slot_id	918	A	Yes	

compensation_logs

Column	Type	Null	Default	Links to	Comments	Media type
cancellation_id (<i>Primary</i>)	int(11)	No				
schedule_id	int(11)	Yes	NULL	teaching_schedules -> schedule_id		
cancellation_date	date	No				
cancellation_type	enum('ยกเลิกรายวิชา', 'วันหยุดราชการ', 'เหตุผลส่วนตัว', 'เหตุฉุกเฉิน', 'อื่นๆ')	No				
reason	varchar(500)	No				
is_makeup_required	tinyint(1)	Yes	0			
makeup_date	date	Yes	NULL			
makeup_classroom_id	int(11)	Yes	NULL	classrooms -> classroom_id		
makeup_start_time_slot_id	int(11)	Yes	NULL	time_slots -> time_slot_id		
makeup_end_time_slot_id	int(11)	Yes	NULL	time_slots -> time_slot_id		
proposed_makeup_date	date	Yes	NULL			
proposed_makeup_classroom_id	int(11)	Yes	NULL	classrooms -> classroom_id		
proposed_makeup_start_time_slot_id	int(11)	Yes	NULL	time_slots -> time_slot_id		
proposed_makeup_end_time_slot_id	int(11)	Yes	NULL	time_slots -> time_slot_id		
change_reason	text	Yes	NULL			
approval_notes	text	Yes	NULL			
approved_by	int(11)	Yes	NULL	users -> user_id		

Column	Type	Null	Default	Links to	Comments	Media type
approved_at	datetime	Yes	NULL			
rejected_reason	text	Yes	NULL			
status	enum('รอดำเนินการ', 'รอยืนยัน', 'ดำเนินการแล้ว', 'ยกเลิก')	Yes	รอดำเนินการ			
created_at	datetime	Yes	current_timestamp()			
updated_at	datetime	Yes	current_timestamp()			
user_id	int(11)	No		users -> user_id		
google_event_id	varchar(255)	Yes	NULL			
google_event_url	text	Yes	NULL			
google_sync_status	enum('pending', 'synced', 'failed', 'deleted')	Yes	pending			
google_sync_at	datetime	Yes	NULL			
google_sync_error	text	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	cancellation_id	96	A	No	
schedule_id	BTREE	No	No	schedule_id	96	A	Yes	
makeup_classroom_id	BTREE	No	No	makeup_classroom_id	2	A	Yes	
makeup_start_time_slot_id	BTREE	No	No	makeup_start_time_slot_id	2	A	Yes	
makeup_end_time_slot_id	BTREE	No	No	makeup_end_time_slot_id	2	A	Yes	
user_id	BTREE	No	No	user_id	32	A	No	
approved_by	BTREE	No	No	approved_by	2	A	Yes	
proposed_makeup_classroom_id	BTREE	No	No	proposed_makeup_classroom_id	2	A	Yes	
proposed_makeup_start_time_slot_id	BTREE	No	No	proposed_makeup_start_time_slot_id	2	A	Yes	
proposed_makeup_end_time_slot_id	BTREE	No	No	proposed_makeup_end_time_slot_id	2	A	Yes	
idx_cancellation_date	BTREE	No	No	cancellation_date	16	A	No	
idx_schedule_cancellation	BTREE	No	No	schedule_id	96	A	Yes	
				cancellation_date	96	A	No	
idx_compensation_status	BTREE	No	No	status	2	A	Yes	
idx_compensation_proposed_date	BTREE	No	No	proposed_makeup_date	2	A	Yes	
idx_compensation_approval	BTREE	No	No	approved_by	2	A	Yes	
				approved_at	2	A	Yes	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
idx_compensation_makeup_date	BTREE	No	No	makeup_date	2	A	Yes	
idx_compensation_type_status	BTREE	No	No	cancellation_type	2	A	No	
				status	2	A	Yes	
idx_compensation_user_date	BTREE	No	No	user_id	32	A	No	
				cancellation_date	96	A	No	
idx_compensation_google_event	BTREE	No	No	google_event_id	2	A	Yes	
idx_compensation_google_sync	BTREE	No	No	google_sync_status	2	A	Yes	
idx_teacher_status_date	BTREE	No	No	user_id	32	A	No	
				status	32	A	Yes	
				cancellation_date	96	A	No	
idx_proposed_schedule	BTREE	No	No	proposed_makeup_date	2	A	Yes	
				proposed_makeup_classroom_id	2	A	Yes	
				proposed_makeup_start_time_slot_id	2	A	Yes	
				proposed_makeup_end_time_slot_id	2	A	Yes	
idx_makeup_schedule_conflict	BTREE	No	No	makeup_date	2	A	Yes	
				makeup_classroom_id	2	A	Yes	
				makeup_start_time_slot_id	2	A	Yes	
				makeup_end_time_slot_id	2	A	Yes	
				status	2	A	Yes	

compensation_status_history

Column	Type	Null	Default	Links to	Comments	Media type
history_id (<i>Primary</i>)	int(11)	No				
cancellation_id	int(11)	No		compensation_logs -> cancellation_id		
old_status	enum('รอดำเนินการ', 'รอยืนยัน', 'ดำเนินการแล้ว', 'ยกเลิก')	Yes	NULL			
new_status	enum('รอดำเนินการ', 'รอยืนยัน', 'ดำเนินการแล้ว', 'ยกเลิก')	Yes	NULL			
action_by	int(11)	No		users -> user_id		
action_reason	text	Yes	NULL			
created_at	datetime	Yes	current_timestamp()			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	history_id	6	A	No	
action_by	BTREE	No	No	action_by	6	A	No	
idx_cancellation_history	BTREE	No	No	cancellation_id	6	A	No	
idx_status_change	BTREE	No	No	old_status	6	A	Yes	
				new_status	6	A	Yes	

google_auth

Column	Type	Null	Default	Links to	Comments	Media type
google_auth_id (<i>Primary</i>)	int(11)	No				
user_id	int(11)	No		users -> user_id		
google_access_token	text	Yes	<i>NULL</i>			
google_refresh_token	text	Yes	<i>NULL</i>			
google_id_token	text	Yes	<i>NULL</i>			
token_expiry	datetime	Yes	<i>NULL</i>			
google_email	varchar(255)	Yes	<i>NULL</i>			
google_name	varchar(255)	Yes	<i>NULL</i>			
calendar_id	varchar(255)	Yes	primary			
is_active	tinyint(1)	Yes	1			
last_checked	datetime	Yes	<i>NULL</i>			
created_at	timestamp	No	current_timestamp()			
updated_at	timestamp	No	current_timestamp()			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	google_auth_id	3	A	No	
unique_user_google	BTREE	Yes	No	user_id	3	A	No	
is_active	BTREE	No	No	is_active	3	A	Yes	

modules

Column	Type	Null	Default	Links to	Comments	Media type
module_id (<i>Primary</i>)	int(11)	No				
module_name	varchar(255)	No				
description	text	Yes	<i>NULL</i>			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	module_id	3	A	No	

module_groups

Column	Type	Null	Default	Links to	Comments	Media type
group_id (<i>Primary</i>)	int(11)	No				
module_id	int(11)	No		modules -> module_id		
group_name	varchar(255)	Yes	<i>NULL</i>			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	group_id	7	A	No	
module_id	BTREE	No	No	module_id	7	A	No	

module_group_year_levels

Column	Type	Null	Default	Links to	Comments	Media type
id (<i>Primary</i>)	int(11)	No				
group_id	int(11)	No		module_groups -> group_id		
year_level_id	int(11)	No		year_levels -> year_level_id		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	17	A	No	
group_id	BTREE	No	No	group_id	17	A	No	
year_level_id	BTREE	No	No	year_level_id	17	A	No	

public_holidays

Table comments: ตารางเก็บข้อมูลวันหยุดราชการ

Column	Type	Null	Default	Links to	Comments	Media type
holiday_id (Primary)	int(11)	No				
academic_year	int(11)	No				
holiday_date	date	No				
holiday_name	varchar(255)	No				
holiday_type	enum('national', 'religious', 'royal', 'substitute')	Yes	national			
is_active	tinyint(1)	Yes	1			
api_source	varchar(50)	Yes	NULL			
api_response_data	longtext	Yes	NULL			
created_at	datetime	Yes	current_timestamp()			
updated_at	datetime	Yes	current_timestamp()			
created_by	int(11)	Yes	NULL	users -> user_id		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	holiday_id	37	A	No	
unique_holiday	BTREE	Yes	No	academic_year	2	A	No	
				holiday_date	37	A	No	
idx_holiday_date	BTREE	No	No	holiday_date	37	A	No	
idx_academic_year	BTREE	No	No	academic_year	2	A	No	
idx_holiday_type	BTREE	No	No	holiday_type	9	A	Yes	
fk_created_by	BTREE	No	No	created_by	2	A	Yes	
idx_holiday_active_date	BTREE	No	No	holiday_date	37	A	No	
				is_active	37	A	Yes	

subjects

Column	Type	Null	Default	Links to	Comments	Media type
subject_id (<i>Primary</i>)	int(11)	No				
subject_code	varchar(20)	No				
subject_name	varchar(200)	No				
credits	int(11)	No				
subject_type	enum('ทฤษฎี', 'ปฏิบัติ')	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	subject_id	48	A	No	
subject_code	BTREE	Yes	No	subject_code	48	A	No	
				subject_type	48	A	No	

teaching_schedules

Column	Type	Null	Default	Links to	Comments	Media type
schedule_id (<i>Primary</i>)	int(11)	No				
academic_year_id	int(11)	No		academic_years -> academic_year_id		
user_id	int(11)	No		users -> user_id		
subject_id	int(11)	No		subjects -> subject_id		
year_level_id	int(11)	Yes	NULL	year_levels -> year_level_id		
classroom_id	int(11)	Yes	NULL	classrooms -> classroom_id		
day_of_week	enum('จ.', 'อ.', 'พ.', 'พฤ.', 'ศ.', 'ส.', 'อา.')	No				
start_time_slot_id	int(11)	No		time_slots -> time_slot_id		
end_time_slot_id	int(11)	No		time_slots -> time_slot_id		
is_external_subject	tinyint(1)	Yes	0			
is_active	tinyint(1)	Yes	1			
created_at	datetime	Yes	current_timestamp()			
updated_at	datetime	Yes	current_timestamp()			
created_by	int(11)	No		users -> user_id		
co_user_id	int(11)	Yes	NULL	users -> user_id		
co_user_id_2	int(11)	Yes	NULL	users -> user_id		
max_teachers	int(11)	Yes	1			

Column	Type	Null	Default	Links to	Comments	Media type
current_teachers	int(11)	Yes	1			
is_module_subject	tinyint(1)	No	0			
group_id	int(11)	Yes	NULL	module_groups -> group_id		

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	schedule_id	78	A	No	
academic_year_id	BTREE	No	No	academic_year_id	2	A	No	
user_id	BTREE	No	No	user_id	39	A	No	
subject_id	BTREE	No	No	subject_id	78	A	No	
classroom_id	BTREE	No	No	classroom_id	19	A	Yes	
year_level_id	BTREE	No	No	year_level_id	26	A	Yes	
start_time_slot_id	BTREE	No	No	start_time_slot_id	19	A	No	
end_time_slot_id	BTREE	No	No	end_time_slot_id	26	A	No	
idx_teaching_schedules_external	BTREE	No	No	is_external_subject	2	A	Yes	
teaching_schedules_ibfk_8	BTREE	No	No	created_by	4	A	No	
idx_teacher_day_time	BTREE	No	No	user_id	39	A	No	
				day_of_week	78	A	No	
				start_time_slot_id	78	A	No	
				end_time_slot_id	78	A	No	
idx_classroom_day_time	BTREE	No	No	classroom_id	19	A	Yes	
				day_of_week	78	A	No	
				start_time_slot_id	78	A	No	
				end_time_slot_id	78	A	No	
idx_active_schedules	BTREE	No	No	academic_year_id	2	A	No	
				is_active	4	A	Yes	
				user_id	39	A	No	
idx_user_day_active	BTREE	No	No	user_id	39	A	No	
				day_of_week	78	A	No	
				is_active	78	A	Yes	
idx_classroom_day_time_active	BTREE	No	No	classroom_id	19	A	Yes	
				day_of_week	78	A	No	

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
				start_time_slot_id	78	A	No	
				end_time_slot_id	78	A	No	
				is_active	78	A	Yes	
idx_co_user_id	BTREE	No	No	co_user_id	26	A	Yes	
idx_co_user_id_2	BTREE	No	No	co_user_id_2	4	A	Yes	
idx_multi_teacher	BTREE	No	No	user_id	39	A	No	
				co_user_id	78	A	Yes	
				co_user_id_2	78	A	Yes	
				day_of_week	78	A	No	
				start_time_slot_id	78	A	No	
				end_time_slot_id	78	A	No	
idx_module_group_id	BTREE	No	No	group_id	11	A	Yes	

time_slots

Column	Type	Null	Default	Links to	Comments	Media type
time_slot_id <i>(Primary)</i>	int(11)	No				
slot_number	int(11)	No				
start_time	time	No				
end_time	time	No				

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	time_slot_id	13	A	No	
slot_number	BTREE	Yes	No	slot_number	13	A	No	

users

Column	Type	Null	Default	Links to	Comments	Media type
user_id <i>(Primary)</i>	int(11)	No				
username	varchar(50)	No				
password	varchar(255)	No	0			

Column	Type	Null	Default	Links to	Comments	Media type
title	varchar(100)	No				
name	varchar(100)	No				
lastname	varchar(100)	No				
cid	varchar(13)	Yes	NULL			
email	varchar(100)	No				
eloin_token	text	Yes	NULL			
faccode	varchar(10)	Yes	NULL			
facname	varchar(100)	Yes	NULL			
depcode	varchar(10)	Yes	NULL			
depname	varchar(100)	Yes	NULL			
seccode	varchar(10)	Yes	NULL			
secname	varchar(100)	Yes	NULL			
user_type	enum('admin', 'teacher')	No				
is_active	tinyint(1)	Yes	1			
created_at	datetime	Yes	current_timestamp()			
last_login	datetime	Yes	NULL			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	user_id	19	A	No	
username	BTREE	Yes	No	username	19	A	No	
idx_cid	BTREE	No	No	cid	19	A	Yes	
idx_username	BTREE	No	No	username	19	A	No	
idx_user_type	BTREE	No	No	user_type	4	A	No	

user_action_logs

Column	Type	Null	Default	Links to	Comments	Media type
log_id (Primary)	int(11)	No				
user_id	int(11)	No				
action	varchar(100)	No				
details	text	Yes	NULL			

Column	Type	Null	Default	Links to	Comments	Media type
target_user_id	int(11)	Yes	<i>NULL</i>			
ip_address	varchar(45)	Yes	<i>NULL</i>			
user_agent	text	Yes	<i>NULL</i>			
created_at	timestamp	No	current_timestamp()			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	log_id	49	A	No	
idx_user_id	BTREE	No	No	user_id	6	A	No	
idx_action	BTREE	No	No	action	2	A	No	
idx_created_at	BTREE	No	No	created_at	49	A	No	

year_levels

Column	Type	Null	Default	Links to	Comments	Media type
year_level_id <i>(Primary)</i>	int(11)	No				
department	varchar(10)	No	วด.			
class_year	varchar(100)	No				
curriculum	enum('4ปี', 'เทียบโอน')	No	4ปี			

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	year_level_id	13	A	No	