



Layout

Table award

Unq	id	serial
* Unq	name	varchar(100)
	description	varchar(500)
Indexes		
Unq	uniq_award_name	name
Unq	pk_award	id

Table blacklist

* Unq	id_client	varchar
*	date_from	date
*	date_to	date
Indexes		
Unq	uniq_blacklist_id_client	id_client
Foreign Keys		
	fk_blacklist client (id_client) ref client (id)	
Constraints		
	check_dates	date_from < date_to

Table challenge

Unq	id	serial
*	date_from	date
*	date_to	date
*	min_entries	varchar
Indexes		
Unq	pk_challenge	id
Constraints		
	check_dates	date_from <= date_to

Table challenge_award

Unq	id_challenge	varchar
Unq	id_award	varchar
*	quantity	varchar
Indexes		
Unq	pk_challenge_award	id_challenge, id_award
Foreign Keys		
	fk_challenge_award challenge (id_challenge) ref challenge (id)	
	fk_challenge_award award (id_award) ref award (id)	

Table class

Unq	id	serial
*	gym	varchar
*	name	varchar(255)
	description	text
*	activity_type	varchar
*	instructor	varchar
	capacity	varchar

Table class

Indexes		
Unq	pk_class	id
Foreign Keys		
	fk_class instructor (instructor)	ref instructor (id_employee)
	fk_class gym (gym)	ref gym (id)
	fk_class class_type (activity_type)	ref class_type (id)
Constraints		
	check_capacity	capacity > 0

Table class_client

* Pk	class_id	varchar
* Pk	client_id	varchar
Indexes		
Pk	pk_class_client	class_id, client_id
Foreign Keys		
	fk_class_client class (class_id)	ref class (id)
	fk_class_client client (client_id)	ref client (id)

Table class_schedule

Unq	id	serial
*	class_id	varchar
*	start_time	time
*	end_time	time
*	day_of_week	varchar
Indexes		
Unq	pk_class_schedule	id
Foreign Keys		
	fk_class_schedule class (class_id)	ref class (id)
Constraints		
	check_times	start_time <= end_time
	check_day	day_of_week BETWEEN 0 AND 6

Table class_type

Unq	id	serial
*	name	varchar(255)
Indexes		
Unq	pk_class_type	id

Table client

Unq	id	serial
*	id_pass	varchar
*	name	varchar(255)
*	address	varchar(255)
Unq	phone	varchar(255)
Unq	email	varchar(255)
Indexes		
Unq	unq_client_phone	phone
Unq	unq_client_email	email

Table client

Unq	pk_client	id
-----	-----------	----

Table employee

Unq	id	serial
*	name	varchar(255)
*	address	varchar(255)
* Unq	phone	varchar(255)
* Unq	email	varchar(255)

Indexes

Unq	uniq_employee_phone	phone
Unq	uniq_employee_email	email
Unq	pk_employee	id

Table employee_user

Unq	id	serial
*	id_employee	varchar
* Unq	username	varchar(128)
*	password	varchar(256)
*	permission	varchar

Indexes

Unq	uniq_employee_user_username	username
Unq	pk_employee_user	id

Foreign Keys

fk_employee_user gym_employee (id_employee) ref gym_employee (id)

Constraints

check_password	length(password) >= 8
check_username	length(username) >= 4
check_permission	permission BETWEEN 0 AND 2

Table entry

Unq	id	serial
*	enter_time	timestamp
*	exit_time	timestamp
*	id_client	varchar
*	id_gym	varchar

Indexes

Unq	pk_entry	id
-----	----------	----

Foreign Keys

fk_entry client (id_client) ref client (id)
fk_entry gym (id_gym) ref gym (id)

Constraints

check_times	enter_time <= exit_time
-------------	-------------------------

Table equipment

Unq	id	serial
*	id_type	varchar

Indexes

Unq	pk_equipment	id
-----	--------------	----

Table equipment

Foreign Keys

fk_equipment equipment_type (id_type) ref equipment_type (id)

Table equipment_type

Unq	id	serial
*	name	varchar(255)

Indexes

Unq	pk_equipment_type	id
-----	-------------------	----

Table gym

Unq	id	serial
*	address	varchar(255)

Indexes

Unq	pk_gym	id
-----	--------	----

Table gym_challenge

*	id_gym	varchar
*	id_challenge	varchar

Foreign Keys

fk_gym_challenge gym (id_gym) ref gym (id)

fk_gym_challenge challenge (id_challenge) ref challenge (id)

Table gym_employee

Unq	id	serial
	id_gym	varchar
*	id_employee	varchar

Indexes

Unq	pk_gym_employee	id
-----	-----------------	----

Foreign Keys

fk_gym_employee gym (id_gym) ref gym (id)

fk_gym_employee employee (id_employee) ref employee (id)

Table gym_equipment

* Pk	gym_id	varchar
* Pk	equipment_id	varchar
*	service_date	date

Indexes

Pk	pk_gym_equipment	gym_id, equipment_id
----	------------------	----------------------

Foreign Keys

fk_gym_equipment gym (gym_id) ref gym (id)

fk_gym_equipment equipment (equipment_id) ref equipment (id)

Table instructor

Unq	id_employee	varchar
	bio	text
	photo	varchar(255)

Indexes

Unq	pk_instructor	id_employee
-----	---------------	-------------

Table instructor

Foreign Keys

fk_instructor employee (id_employee) ref employee (id)

Table pass

Unq	id	serial
*	name	varchar(256)
*	price	numeric(10,2)

Indexes

Unq	pk_pass	id
-----	---------	----

Constraints

price_check	price>=0
-------------	----------

Table pass_client

* Pk	id_pass	varchar
* Pk	id_client	varchar

Indexes

Pk	pk_pass_client	id_pass, id_client
----	----------------	--------------------

Foreign Keys

fk_pass_client pass (id_pass) ref pass (id)

fk_pass_client client (id_client) ref client (id)

Table pass_gym

*	id_pass	varchar
*	id_gym	varchar

Foreign Keys

fk_pass_gym pass (id_pass) ref pass (id)

fk_pass_gym gym (id_gym) ref gym (id)

Table schedule

Unq	id	serial
*	id_gym_employee	varchar
*	start_time	time
*	end_time	time
*	work_date	date

Indexes

Unq	pk_schedule	id
-----	-------------	----

Foreign Keys

fk_schedule gym_employee (id_gym_employee) ref gym_employee (id)

Constraints

check_times	start_time <= end_time
-------------	------------------------