

# **gym\_0424\_generat e\_at\_0424\_2257**

## **Data Dictionary**

Server: cloud  
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## Table of Contents

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1. Introduction .....	1
2. Server: cloud (MariaDB) .....	2
2.1. Database: gym_0424_generate_at_0424_2257 .....	2
2.1.1. Tables .....	2
2.1.1.1. Table: branch .....	2
2.1.1.2. Table: course .....	2
2.1.1.3. Table: courseenrollment .....	3
2.1.1.4. Table: courseinstance .....	4
2.1.1.5. Table: coursetemplate .....	5
2.1.1.6. Table: equipment .....	6
2.1.1.7. Table: lostandfound .....	6
2.1.1.8. Table: person .....	7
2.1.1.9. Table: product .....	8
2.1.1.10. Table: purchase .....	9

## 1. Introduction

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A data dictionary is a collection of metadata such as object name, data type, size, classification, and relationships with other data assets. It is used by data administrators, analysts, and engineers to understand and trust data assets. It helps in the creation of authentic, transparent, and consistent data throughout the organization.

In this data dictionary, following servers are chosen for documentation:  
cloud (MariaDB)

For each server, definitions of tables (entities/collections), views, functions are listed in order. Detailed properties of data elements (data type, size, nullability, optionality, indexes, foreign keys, constraints) are organized in tabular format.

## 2. Server: cloud (MariaDB)

Version: 11.4.2-MariaDB-ubu2404

1 database is listed below.


### 2.1. Database: gym\_0424\_generate\_at\_0424\_2257

Database objects to be listed: 10 tables

#### 2.1.1. Tables


##### 2.1.1.1. Table: branch

###### Fields

Pos	Name	Type	Not Null	Others
1	branch_id 	int(11) Auto Increment	✓	
2	name	varchar(64)	✓	
3	city	varchar(32)		
4	district	varchar(32)		
5	address	varchar(128)		

##### 2.1.1.2. Table: course

###### Fields

Pos	Name	Type	Not Null	Others
1	course_id 	varchar(32)	✓	
2	name	varchar(64)		
3	start_date	date		
4	end_date	date		
5	start_time	time		
6	end_time	time		
7	hours	int(11)		
8	coach_id	int(11)		Index: coach_id
9	branch_id	int(11)		Index: branch_id

10	location	varchar(64)		
11	fee	decimal(8, 2)		
12	requirement	varchar(256)		
13	max_seats	int(11)		
14	img	varchar(128)		

## Indexes


Name	Type	Method	Fields
coach_id	NORMAL	BTREE	coach_id
branch_id	NORMAL	BTREE	branch_id

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
course_ibfk_1	coach_id	gym_0424_generate_at_0424_2257.person	person_id	RESTRICT	RESTRICT
course_ibfk_2	branch_id	gym_0424_generate_at_0424_2257.branch	branch_id	RESTRICT	RESTRICT

### 2.1.1.3. Table: courseenrollment

#### Fields

Pos	Name	Type	Not Null	Others
1	enrollment_id 	int(11) <a href="#">Auto Increment</a>	✓	
2	course_id	varchar(32)		Index: <a href="#">course_id</a>
3	member_id	int(11)		Index: <a href="#">course_id</a> <a href="#">member_id</a>
4	enroll_time	datetime		Default: current_timestamp()

## Indexes


Name	Type	Method	Fields
course_id	UNIQUE	BTREE	course_id, member_id
member_id	NORMAL	BTREE	member_id

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
courseenrollment_ibfk_1	course_id	gym_0424_generate_at_0424_2257.course	course_id	RESTRICT	RESTRICT
courseenrollment_ibfk_2	member_id	gym_0424_generate_at_0424_2257.person	person_id	RESTRICT	RESTRICT

### 2.1.1.4. Table: courseinstance

#### Fields

Pos	Name	Type	Not Null	Others
1	course_instance_id 	varchar(32)	✓	
2	course_name	varchar(64)		
3	template_id	int(11)		Index: <code>template_id</code>
4	course_id	varchar(32)		Index: <code>course_id</code>
5	start_datetime	datetime		
6	end_datetime	datetime		
7	status	varchar(16)		Default: 'present'
8	member_id	int(11)		Index: <code>member_id</code>

#### Indexes


Name	Type	Method	Fields
course_id	NORMAL	BTREE	course_id
template_id	NORMAL	BTREE	template_id
member_id	NORMAL	BTREE	member_id

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
courseinstance_ibfk_1	course_id	gym_0424_generate_at_0424_2257.course	course_id	RESTRICT	RESTRICT
courseinstance_ibfk_2	template_id	gym_0424_generate_at_0424_2257.coursetemplate	template_id	RESTRICT	RESTRICT
courseinstance_ibfk_3	member_id	gym_0424_generate_at_0424_2257.person	person_id	RESTRICT	RESTRICT

### 2.1.1.5. Table: coursetemplate

#### Fields

Pos	Name	Type	Not Null	Others
1	template_id 	int(11) <span>Auto Increment</span>	✓	
2	name	varchar(64)		
3	coach_id	int(11)		Index: <span>coach_id</span>
4	branch_id	int(11)		Index: <span>branch_id</span>
5	location	varchar(64)		
6	weekly	tinyint(4)		
7	start_time	time		
8	end_time	time		
9	valid_from	date		
10	valid_to	date		
11	max_seats	int(11)		
12	fee	decimal(8, 2)		
13	requirement	varchar(256)		
14	course_id	varchar(32)		Index: <span>course_id</span>
15	course_name	varchar(64)		

#### Indexes


Name	Type	Method	Fields
coach_id	NORMAL	BTREE	coach_id
branch_id	NORMAL	BTREE	branch_id
course_id	NORMAL	BTREE	course_id

#### Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
coursetemplate_i bfk_1	coach_id	gym_0424_generate_ at_0424_2257.person	person_id	RESTRICT	RESTRICT
coursetemplate_i bfk_2	branch_id	gym_0424_generate_ at_0424_2257.branch	branch_id	RESTRICT	RESTRICT
coursetemplate_i bfk_3	course_id	gym_0424_generate_ at_0424_2257.course	course_id	RESTRICT	RESTRICT

## 2.1.1.6. Table: equipment

## Fields

Pos	Name	Type	Not Null	Others
1	equipment_id 	int(11) <span>Auto Increment</span>	✓	
2	name	varchar(64)	✓	
3	quantity	int(11)		Default: 1
4	status	enum		Default: 'normal'
5	branch_id	int(11)	✓	Index: <span>branch_id</span>

## Indexes


Name	Type	Method	Fields
branch_id	NORMAL	BTREE	branch_id

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
equipment_ibfk_1	branch_id	gym_0424_generate_at_0424_2257.branch	branch_id	RESTRICT	RESTRICT

## 2.1.1.7. Table: lostandfound

## Fields

Pos	Name	Type	Not Null	Others
1	pick_id 	int(11) <span>Auto Increment</span>	✓	
2	pick_name	varchar(64)	✓	
3	pick_photo	varchar(128)		
4	pick_time	datetime	✓	
5	pick_place	varchar(128)	✓	
6	description	text		
7	registrant_username	varchar(32)		Index: <span>registrant_username</span>
8	is_claimed	tinyint(1)		Default: 0



## Indexes


Name	Type	Method	Fields
registrant_username	NORMAL	BTREE	registrant_username

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
lostandfound_ibfk_1	registrant_username	gym_0424_generate_at_0424_2257.person	username	RESTRICT	RESTRICT

## 2.1.1.8. Table: person

## Fields

Pos	Name	Type	Not Null	Others
1	person_id 	int(11) <a href="#">Auto Increment</a>	✓	
2	username	varchar(32)	✓	Index: <a href="#">username</a>
3	password	varchar(64)	✓	
4	role	enum	✓	
5	first_name	varchar(32)		
6	last_name	varchar(32)		
7	gender	enum		Default: 'Other'
8	birthday	date		
9	phone	varchar(15)		
10	id_number	varchar(32)		
11	join_date	date		Default: curdate()
12	branch_id	int(11)		Index: <a href="#">branch_id</a>
13	qualification_no	varchar(32)		
14	qualification_expiry	date		
15	specialty	varchar(128)		
16	position	varchar(32)		

## Indexes


Name	Type	Method	Fields
username	UNIQUE	BTREE	username
branch_id	NORMAL	BTREE	branch_id

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
person_ibfk_1	branch_id	gym_0424_generate_at_0424_2257.branch	branch_id	RESTRICT	RESTRICT

### 2.1.1.9. Table: product

## Fields

Pos	Name	Type	Not Null	Others
1	product_id 	varchar(32)	✓	
2	name	varchar(64)		
3	description	text		
4	image	varchar(128)		
5	stock	int(11)		Default: 0
6	price	int(11)	✓	Default: 0
7	branch_id	int(11)		Index: branch_id

## Indexes


Name	Type	Method	Fields
branch_id	NORMAL	BTREE	branch_id

## Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
product_ibfk_1	branch_id	gym_0424_generate_at_0424_2257.branch	branch_id	RESTRICT	RESTRICT

### 2.1.1.10. Table: purchase

#### Fields

Pos	Name	Type	Not Null	Others
1	purchase_id 	int(11) Auto Increment	✓	
2	member_id	int(11)		Index: member_id
3	type	enum		
4	ref_id	varchar(32)		
5	number	int(11)		Default: 1
6	total_fee	decimal(8, 2)		
7	purchase_time	datetime		Default: current_timestamp()

#### Indexes

Name	Type	Method	Fields
member_id	NORMAL	BTREE	member_id

#### Foreign Keys

Name	Fields	Referenced Table	Referenced Fields	On Delete	On Update
purchase_ibfk_1	member_id	gym_0424_generate_at_0424_2257.person	person_id	RESTRICT	RESTRICT