PostgreSQL Physical Model

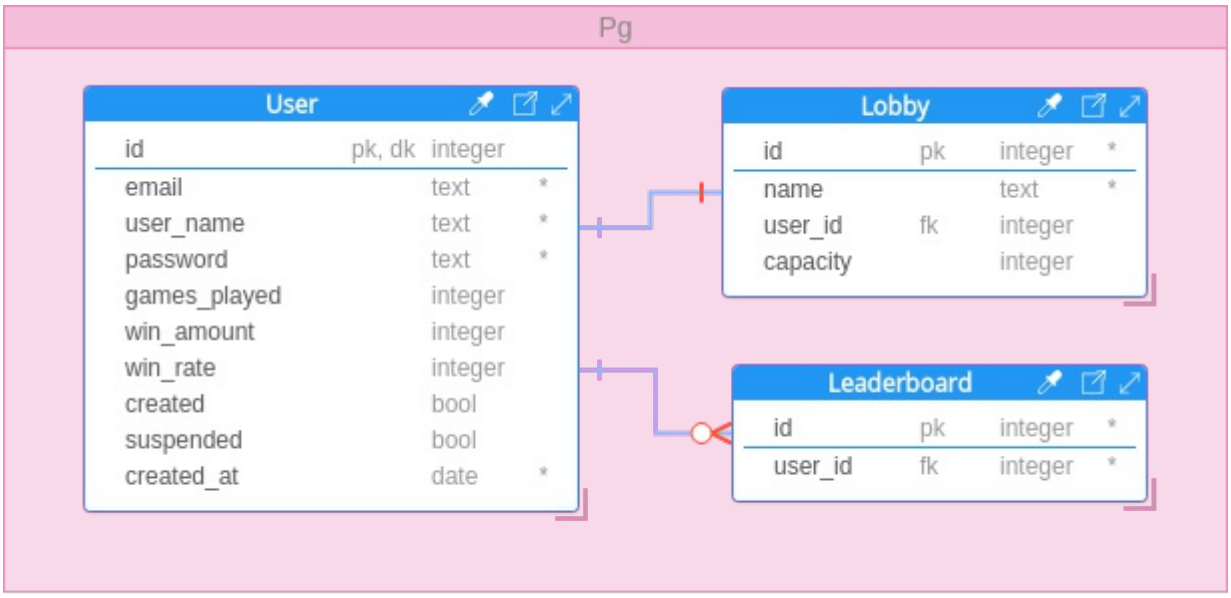
Schema for:

Model name: New model
Author:
Version:
File name: pgmodel.hck.json
File path: /home/theuser/Documents/SpellitGolang/backend/models/pgmodel.hck.json
Printed On: Wed Dec 07 2022 10:58:27 GMT+0100 (Central European Standard Time)
Created with: Hackolade - Polyglot data modeling for NoSQL databases, storage formats, REST APIs, and JSON in RDBMS

1. MODEL

1.1 Model New model

1.1.1 New model Entity Relationship Diagram



1.1.2 New model Properties

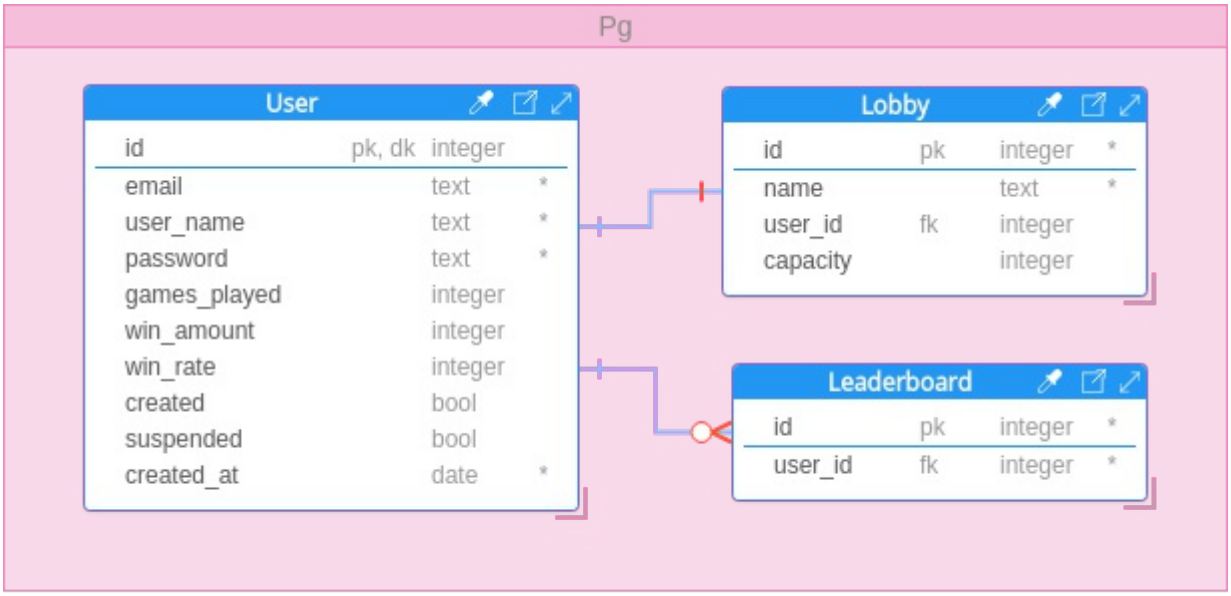
1.1.2.1 Details tab

PROPERTY	VALUE
Model name	New model
Technical name	
Description	
Author	
Version	
Synchronization Id	
DB vendor	PostgreSQL
DB version	v13.x
Database name	
Tablespace	pg_default
Encoding	UTF8
Template	
Locale	
Collation	
Character type	
Lineage capture	
Polyglot models	
Comments	

1.1.3 New model User-Defined Types

2. SCHEMAS

2.1 Schema Pg



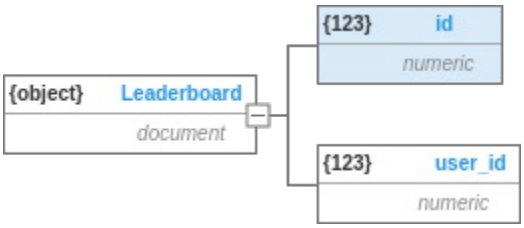
2.1.1 Pg Properties

PROPERTY	VALUE
Schema name	Pg
Technical name	
Activated	true
Comments	
If not exist	true
Remarks	

2.1.2 Pg Tables

2.1.2.1 Table Leaderboard

2.1.2.1.1 Leaderboard Tree Diagram



2.1.2.1.2 Leaderboard Properties

PROPERTY	VALUE
Table	Leaderboard
Technical name	user
Activated	true
Id	
Schema	Pg
Additional properties	false
$ref	
Comments	
Temporary	
Unlogged	
If not exists	true
Inherits parent tables	
[1] Table name	
Partition of	
Partition bounds	
Partitioning	
[1] Partition method	
Partition by	
Partition key	
Expression	
Using method	
Storage parameters	
[1] Fill factor	
Parallel workers	
Enable autovacuum	
Autovacuum params	
Enable TOAST autovacuum	
TOAST parameters	
User catalog table	
Tablespace	pg_default
As Select statement	
Remarks	

2.1.2.1.3 Leaderboard Column

COLUMN	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
id	integer	true	pk		
user_id	integer	true	fk		

2.1.2.1.3.1 Column id

2.1.2.1.3.1.1 id Tree Diagram

2.1.2.1.3.1.2 id properties

PROPERTY	VALUE
Business Name	id
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	true
Default	
Comments	
Primary key	true
Primary key options	
Unique	true
Unique key options	
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.1.3.2 Column user_id

2.1.2.1.3.2.1 user_id Tree Diagram

2.1.2.1.3.2.2 user_id properties

PROPERTY	VALUE
Business Name	user_id
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	true
Default	
Comments	
Primary key	false
Unique	true
Unique key options	
Foreign table	User
Foreign field	id
Relationship type	Foreign Key
Relationship name	fk Leaderboard.user_id to User.id
Cardinality	0..n
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.1.4 Leaderboard Composite keys

PROPERTY	VALUE
Primary key	
[1] Constraint name	
Key	
Include non-key columns	
With storage parameters	
Index tablespace	
Comment	
Unique key	
[1] Constraint name	
Key	
Include non-key columns	
With storage parameters	
Index tablespace	
Comment	

2.1.2.1.5 Leaderboard JSON Schema


```
{
   "$schema": "http://json-schema.org/draft-04/schema#",
   "type": "object",
   "title": "Leaderboard",
   "properties": {
      "id": {
         "type": "number"
      },
      "user_id": {
         "type": "number"
      }
   },
   "additionalProperties": false,
   "required": [
      "id",
      "user_id"
   ]
}
```


2.1.2.1.6 Leaderboard JSON data

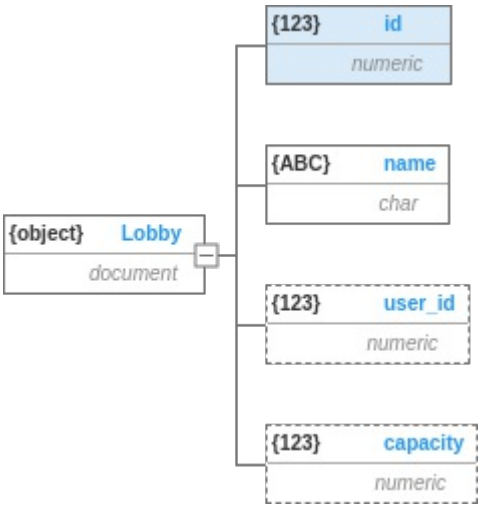
```
{
   "id": -31,
   "user_id": -82
}
```

2.1.2.1.7 Leaderboard Target Script

```
CREATE SCHEMA IF NOT EXISTS Pg;
SET search_path TO Pg;

CREATE TABLE IF NOT EXISTS Pg."user" (
      id integer PRIMARY KEY UNIQUE NOT NULL,
      user_id integer UNIQUE NOT NULL,
      CONSTRAINT "fk Leaderboard.user_id to User.id" FOREIGN KEY (user_id) REFERENCES Pg."User" (id)
) TABLESPACE pg_default;
```

2.1.2.2 Table Lobby

2.1.2.2.1 Lobby Tree Diagram



2.1.2.2.2 Lobby Properties

PROPERTY	VALUE
Table	Lobby
Technical name	
Activated	true
Id	
Schema	Pg
Additional properties	false
$ref	
Comments	
Temporary	
Unlogged	
If not exists	true
Inherits parent tables	
[1] Table name	
Partition of	
Partition bounds	
Partitioning	
[1] Partition method	
Partition by	
Partition key	
Expression	
Using method	
Storage parameters	
[1] Fill factor	
Parallel workers	
Enable autovacuum	
Autovacuum params	
Enable TOAST autovacuum	
TOAST parameters	
User catalog table	
Tablespace	pg_default
As Select statement	
Remarks	

2.1.2.2.3 Lobby Column

COLUMN	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
id	integer	true	pk		
name	text	true			
user_id	integer	false	fk		
capacity	integer	false			

2.1.2.2.3.1 Column id

2.1.2.2.3.1.1 id Tree Diagram

2.1.2.2.3.1.2 id properties

PROPERTY	VALUE
Business Name	id
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	true
Default	
Comments	
Primary key	true
Primary key options	
Unique	true
Unique key options	
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.2.3.2 Column name

2.1.2.2.3.2.1 name Tree Diagram

2.1.2.2.3.2.2 name properties

PROPERTY	VALUE
Business Name	name
Technical name	
Activated	true
Id	
Type	char
Subtype	text
Array type	
Collation rule	
Not null	true
Default	
Comments	
Primary key	false
Unique	false
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min length	
Max length	
Pattern	
Format	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.2.3.3 Column user_id

2.1.2.2.3.3.1 user_id Tree Diagram

2.1.2.2.3.3.2 user_id properties

PROPERTY	VALUE
Business Name	user_id
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	
Default	
Comments	
Primary key	false
Unique	false
Foreign table	User
Foreign field	id
Relationship type	Foreign Key
Relationship name	fk Lobby.New column to User.id
Cardinality	1
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.2.3.4 Column capacity

2.1.2.2.3.4.1 capacity Tree Diagram

2.1.2.2.3.4.2 capacity properties

PROPERTY	VALUE
Business Name	capacity
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	
Default	
Comments	
Primary key	false
Unique	false
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.2.4 Lobby Composite keys

PROPERTY	VALUE
Primary key	
[1] Constraint name	
Key	
Include non-key columns	
With storage parameters	
Index tablespace	
Comment	
Unique key	
[1] Constraint name	
Key	
Include non-key columns	
With storage parameters	
Index tablespace	
Comment	

2.1.2.2.5 Lobby JSON Schema

```
{
  "$schema": "http://json-schema.org/draft-04/schema#",
  "type": "object",
  "title": "Lobby",
  "properties": {
    "id": {
      "type": "number"
    },
    "name": {
      "type": "string"
    },
    "user_id": {
      "type": "number"
    },
    "capacity": {
      "type": "number"
    }
  },
  "additionalProperties": false,
  "required": [
    "id",
    "name"
  ]
}
```

2.1.2.2.6 Lobby JSON data

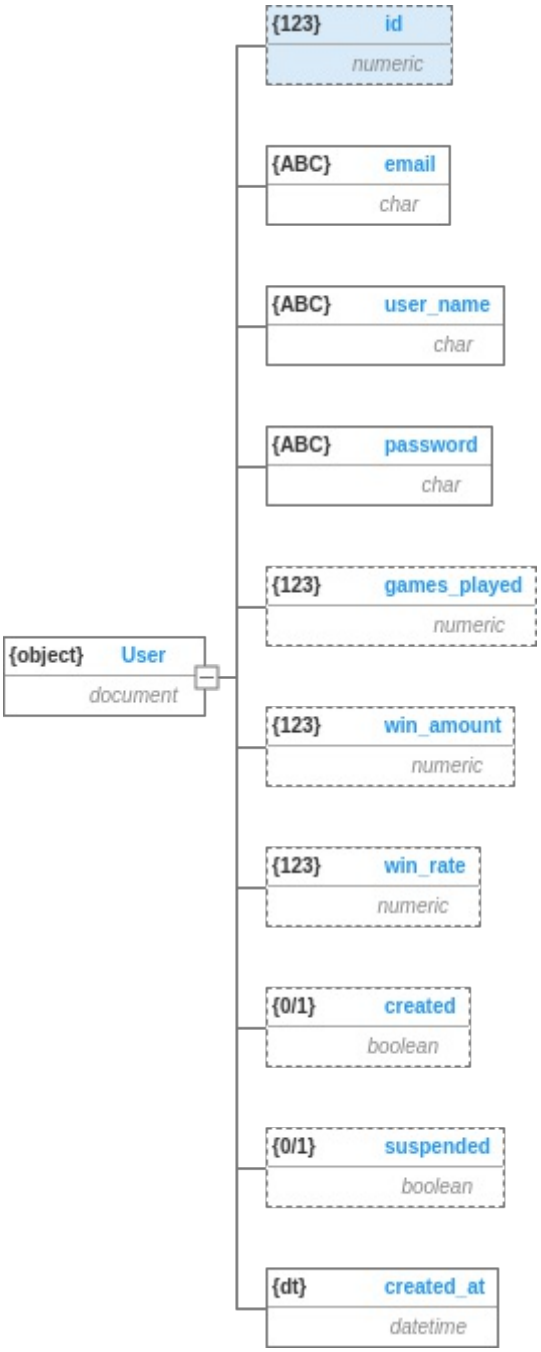
```
{
   "id": 20,
   "name": "Lorem",
   "user_id": 37,
   "capacity": -94
}
```


2.1.2.2.7 Lobby Target Script

```
CREATE SCHEMA IF NOT EXISTS Pg;
SET search_path TO Pg;

CREATE TABLE IF NOT EXISTS Pg.Lobby (
        id integer PRIMARY KEY UNIQUE NOT NULL,
        name text NOT NULL,
        user_id integer,
        capacity integer,
        CONSTRAINT "fk Lobby.New column to User.id" FOREIGN KEY (user_id) REFERENCES Pg."User" (id)
) TABLESPACE pg_default;
```

2.1.2.3 Table User

2.1.2.3.1 User Tree Diagram



2.1.2.3.2 User Properties

PROPERTY	VALUE
Table	User
Technical name	
Activated	true
Id	
Schema	Pg
Additional properties	false
$ref	
Comments	
Temporary	
Unlogged	
If not exists	true
Inherits parent tables	
[1] Table name	
Partition of	
Partition bounds	
Partitioning	
[1] Partition method	
Partition by	
Partition key	
Expression	
Using method	
Storage parameters	
[1] Fill factor	
Parallel workers	
Enable autovacuum	
Autovacuum params	
Enable TOAST autovacuum	
TOAST parameters	
User catalog table	
Tablespace	pg_default
As Select statement	
Remarks	

2.1.2.3.3 User Column

COLUMN	TYPE	REQ	KEY	DESCRIPTION	COMMENTS
id	integer	false	pk, dk		
email	text	true			
user_name	text	true			
password	text	true			
games_played	integer	false			
win_amount	integer	false			
win_rate	integer	false			
created	boolean	false			
suspended	boolean	false			
created_at	date	true			

2.1.2.3.3.1 Column id

2.1.2.3.3.1.1 id Tree Diagram

2.1.2.3.3.1.2 id properties

PROPERTY	VALUE
Business Name	id
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	
Default	
Comments	
Primary key	true
Primary key options	
Unique	true
Unique key options	
Foreign table	Lobby
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.2 Column email

2.1.2.3.3.2.1 email Tree Diagram

2.1.2.3.3.2.2 email properties

PROPERTY	VALUE
Business Name	email
Technical name	
Activated	true
Id	
Type	char
Subtype	text
Array type	
Collation rule	
Not null	true
Default	
Comments	
Primary key	false
Unique	true
Unique key options	
[1] Constraint name	
Include non-key columns	
With storage parameters	
Tablespace	
Comment	
[2] Constraint name	
Include non-key columns	
With storage parameters	
Tablespace	
Comment	
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min length	

Max length	
Pattern	
Format	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.3 Column user_name

2.1.2.3.3.3.1 user_name Tree Diagram

2.1.2.3.3.3.2 user_name properties

PROPERTY	VALUE
Business Name	user_name
Technical name	
Activated	true
Id	
Type	char
Subtype	text
Array type	
Collation rule	
Not null	true
Default	
Comments	
Primary key	false
Unique	false
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min length	
Max length	
Pattern	
Format	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.4 Column password

2.1.2.3.3.4.1 password Tree Diagram

2.1.2.3.3.4.2 password properties

PROPERTY	VALUE
Business Name	password
Technical name	
Activated	true
Id	
Type	char
Subtype	text
Array type	
Collation rule	
Not null	true
Default	
Comments	
Primary key	false
Unique	true
Unique key options	
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Min length	
Max length	
Pattern	
Format	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.5 Column games_played

2.1.2.3.3.5.1 games_played Tree Diagram

2.1.2.3.3.5.2 games_played properties

PROPERTY	VALUE
Business Name	games_played
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	
Default	
Comments	
Primary key	false
Unique	false
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.6 Column win_amount

2.1.2.3.3.6.1 win_amount Tree Diagram

2.1.2.3.3.6.2 win_amount properties

PROPERTY	VALUE
Business Name	win_amount
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	
Default	
Comments	
Primary key	false
Unique	false
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.7 Column win_rate

2.1.2.3.3.7.1 win_rate Tree Diagram

2.1.2.3.3.7.2 win_rate properties

PROPERTY	VALUE
Business Name	win_rate
Technical name	
Activated	true
Id	
Type	numeric
Subtype	integer
Array type	
Not null	
Default	
Comments	
Primary key	false
Unique	false
Foreign table	
Foreign field	
Relationship type	
Relationship name	
Cardinality	
Unit	
Min value	
Excl min	false
Max value	
Excl max	false
Multiple of	
Divisible by	
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.3.8 Column created

2.1.2.3.3.8.1 created Tree Diagram

2.1.2.3.3.8.2 created properties

PROPERTY	VALUE
Business Name	created
Technical name	
Activated	true
Id	
Type	boolean
Comments	
Array type	
Not null	
Default	
Sample	
Remarks	

2.1.2.3.3.9 Column suspended

2.1.2.3.3.9.1 suspended Tree Diagram

2.1.2.3.3.9.2 suspended properties

PROPERTY	VALUE
Business Name	suspended
Technical name	
Activated	true
Id	
Type	boolean
Comments	
Array type	
Not null	
Default	
Sample	
Remarks	

2.1.2.3.3.10 Column created_at

2.1.2.3.3.10.1 created_at Tree Diagram

2.1.2.3.3.10.2 created_at properties

PROPERTY	VALUE
Business Name	created_at
Technical name	
Activated	true
Id	
Type	datetime
Subtype	date
Comments	
Array type	
Not null	true
Default	
Primary key	false
Unique	false
Pattern	
Enum	
Faker function	
Sample	
Remarks	

2.1.2.3.4 User Composite keys

PROPERTY	VALUE
Primary key	
[1] Constraint name	
Key	
Include non-key columns	
With storage parameters	
Index tablespace	
Comment	
Unique key	
[1] Constraint name	
Key	
Include non-key columns	
With storage parameters	
Index tablespace	
Comment	

2.1.2.3.5 User JSON Schema

```
{
   "$schema": "http://json-schema.org/draft-04/schema#",
   "type": "object",
   "title": "User",
   "properties": {
      "id": {
         "type": "number"
      },
      "email": {
         "type": "string"
      },
      "user_name": {
         "type": "string"
      },
      "password": {
         "type": "string"
      },
      "games_played": {
         "type": "number"
      },
      "win_amount": {
         "type": "number"
      },
      "win_rate": {
         "type": "number"
      },
      "created": {
         "type": "boolean"
      },
      "suspended": {
         "type": "boolean"
      },
      "created_at": {
         "type": "string"
      }
   },
   "additionalProperties": false,
   "required": [
      "email",
      "user_name",
      "password",
      "created_at"
   ]
}
```


2.1.2.3.6 User JSON data

```
{
   "id": -50,
   "email": "Lorem",
   "user_name": "Lorem",
   "password": "Lorem",
   "games_played": 21,
   "win_amount": -21,
   "win_rate": 41,
   "created": true,
   "suspended": true,
   "created_at": "2011-02-03 04:05:00+0000"
}
```


2.1.2.3.7 User Target Script

```
CREATE SCHEMA IF NOT EXISTS Pg;
SET search_path TO Pg;

CREATE TABLE IF NOT EXISTS Pg."User" (
        id integer PRIMARY KEY UNIQUE,
        email text NOT NULL,
        user_name text NOT NULL,
        password text UNIQUE NOT NULL,
        games_played integer,
        win_amount integer,
        win_rate integer,
        created boolean,
        suspended boolean,
        created_at date NOT NULL,
        UNIQUE (email),
        UNIQUE (email)
) TABLESPACE pg_default;
```

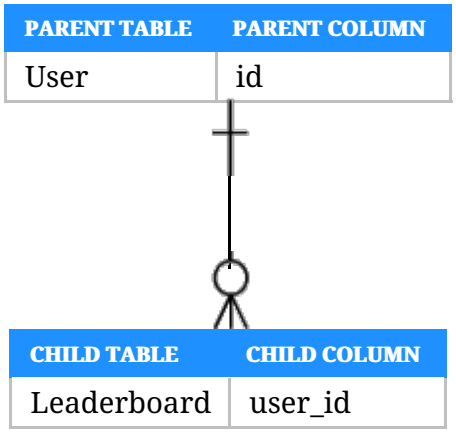
2.1.3 Pg Target Script

```
CREATE SCHEMA IF NOT EXISTS Pg;
SET search_path TO Pg;

CREATE TABLE IF NOT EXISTS Pg."User" (
	id integer PRIMARY KEY UNIQUE,
	email text NOT NULL,
	user_name text NOT NULL,
	password text UNIQUE NOT NULL,
	games_played integer,
	win_amount integer,
	win_rate integer,
	created boolean,
	suspended boolean,
	created_at date NOT NULL,
	UNIQUE (email),
	UNIQUE (email)
) TABLESPACE pg_default;

CREATE TABLE IF NOT EXISTS Pg.Lobby (
	id integer PRIMARY KEY UNIQUE NOT NULL,
	name text NOT NULL,
	user_id integer,
	capacity integer,
	CONSTRAINT "fk Lobby.New column to User.id" FOREIGN KEY (user_id) REFERENCES Pg."User" (id)
) TABLESPACE pg_default;

CREATE TABLE IF NOT EXISTS Pg."user" (
	id integer PRIMARY KEY UNIQUE NOT NULL,
	user_id integer UNIQUE NOT NULL,
	CONSTRAINT "fk Leaderboard.user_id to User.id" FOREIGN KEY (user_id) REFERENCES Pg."User" (id)
) TABLESPACE pg_default;
```

3. RELATIONSHIPS

3.1 Relationship fk Leaderboard.user_id to User.id

3.1.1 fk Leaderboard.user_id to User.id Diagram



3.1.2 fk Leaderboard.user_id to User.id Properties

PROPERTY	VALUE
Name	fk Leaderboard.user_id to User.id
Description	
Parent Table	User
Parent Column	id
Parent Cardinality	1
Child Table	Leaderboard
Child Column	user_id
Child Cardinality	0..n
Comments	

3.2 Relationship fk Lobby.New column to User.id

3.2.1 fk Lobby.New column to User.id Diagram

PARENT TABLE	PARENT COLUMN
User	id

CHILD TABLE	CHILD COLUMN
Lobby	user_id

3.2.2 fk Lobby.New column to User.id Properties

PROPERTY	VALUE
Name	fk Lobby.New column to User.id
Description	
Parent Table	User
Parent Column	id
Parent Cardinality	1
Child Table	Lobby
Child Column	user_id
Child Cardinality	1
Comments	