Back-End Web Development

ST0503

Assignment 2

SQL Documentation

Alden Chia Yu Xiang

2205584

DISM/FT/2A/01

Contents

[Tables 2](#_Toc142152713)

[Table 1: users 3](#_Toc142152714)

[Table 2: games 3](#_Toc142152715)

[Table 3: category 3](#_Toc142152716)

[Table 4: platform 4](#_Toc142152717)

[Table 5: review 4](#_Toc142152718)

[Table 6: userGames 4](#_Toc142152719)

[Table 7: gamesByCategory 4](#_Toc142152720)

[Table 8: gamesByPlatform 5](#_Toc142152721)

[Table 9: gamesImage 5](#_Toc142152722)

[Relationship Diagram 5](#_Toc142152723)

# Tables

Abbreviations

1. PK: Primary Key
2. FK: Foreign Key
3. U: Unique (by itself)
   1. Ux: Same number x in same table- used together

## Table 1: users

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| userid (PK) | INT | NOT NULL | AUTO\_INCREMENT | Identifier for user |
| username | VARCHAR(30) | NOT NULL | NIL | User’s password |
| password | VARCHAR(50) | NOT NULL | NIL | User’s password |
| Email (U) | VARCHAR(80) | NOT NULL | NIL | User’s email |
| member\_type | VARCHAR(20) | NOT NULL | CHECK (member\_type IN ('Member', 'Bronze', 'Silver', 'Gold', 'Diamond', 'admin')), | User’s member type |
| points | INT | NOT NULL | NIL | User’s points |
| profile\_picture\_url | VARCHAR(100) | NOT NULL | NIL | User’s url for profile picture |
| created\_at | DATETIME | NOT NULL | DEFAULT CURRENT\_TIMESTAMP() | Timestamp of account creation |

## Table 2: games

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| gameid (PK) | INT | NOT NULL | AUTO\_INCREMENT | Identifier for game |
| title (U) | VARCHAR(100) | NOT NULL | NIL | Game’s title |
| description | VARCHAR(1000) | NOT NULL | NIL | Game’s description |
| year | INT | NOT NULL | CHECK (`year` >= 1000 AND `year` <= 2023) | Game year of realise |
| created\_at | DATETIME | NOT NULL | DEFAULT CURRENT\_TIMESTAMP() | Timestamp of game creation |

## Table 3: category

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| categoryid (PK) | INT | NOT NULL | AUTO\_INCREMENT | Identifier for category |
| categoryname (U) | VARCHAR(30) | NOT NULL | NIL | Category’s name |
| description | VARCHAR(200) | NOT NULL | NIL | Category’s description |

## Table 4: platform

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| platformid (PK) | INT | NOT NULL | AUTO\_INCREMENT | Identifier for platform |
| platformname (U) | VARCHAR(30) | NOT NULL | NIL | Platform’s name |
| description | VARCHAR(200) | NOT NULL | NIL | Platform’s description |

## Table 5: review

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| reviewid (PK) | INT | NOT NULL | AUTO\_INCREMENT | Identifier for review |
| userid (FK) (U1) | INT | NOT NULL | NIL | FK referencing to users.userid |
| gameid (FK) (U1) | INT | NOT NULL | ON DELETE CASCADE | FK referencing to games.gameid |
| content | VARCHAR(500) | NOT NULL | NIL | Review’s content |
| rating | CHAR(1) | NOT NULL | CHECK (`rating` >= 0 AND `rating` <= 5) | Review’s rating  (1 – 5) |
| created\_at | DATETIME | NOT NULL | DEFAULT CURRENT\_TIMESTAMP() | Timestamp of review creation |

## Table 6: userGames

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| userid (FK) (U1) | INT | NOT NULL | NIL | FK referencing to users.userid |
| gameid (FK) (U1) | INT | NOT NULL | ON DELETE CASCADE | FK referencing to games.gameid |
| platformid (FK) (U1) | INT | NOT NULL | NIL | FK referencing to platform.platformid |

## Table 7: gamesByCategory

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| gameid (FK) (U1) | INT | ON DELETE CASCADE | FK referencing to games.gameid | FK referencing to games.gameid |
| categoryid (FK) (U1) | INT | NIL | FK referencing to category.categoryid | FK referencing to category.categoryid |

## Table 8: gamesByPlatform

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| gameid (FK) (U1) | INT | NOT NULL | ON DELETE CASCADE | FK referencing to games.gameid |
| platformid (FK) (U1) | INT | NOT NULL | NIL | FK referencing to platform.platformid |
| price | FLOAT | NOT NULL | NIL | Price of game |
| points | INT | NOT NULL | NIL | Cost of game in points |

## Table 9: gamesImage

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column | Data Type | Null Constraint | Others | Description |
| gameid (FK) (U) | INT | NOT NULL | ON DELETE CASCADE | FK referencing to games.gameid |
| filepath | VARCHAR(1000) | NOT NULL | NIL | File path to game’s image |

# Relationship Diagram

A computer screen shot of a computer network

Description automatically generated with medium confidence