SQL Documentation

BED Assignment 2: SP Games

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This document contains information about the mySQL tables and relationships involved in SP Games Assignment 2.

mySQL Tables

**Table: user**

**Description**: Contains the all users in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| userid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| username | VARCHAR(30) | NOT NULL | User’s username |
| email | VARCHAR(50) | NOT NULL | Email address |
| password | VARCHAR(20) | NOT NULL | User’s password |
| type | VARCHAR(10) | NOT NULL | User type (admin or customer) |
| profile\_pic\_url | VARCHAR(300) | NOT NULL | URL to user profile picture |
| created\_at: | TIMESTAMP | NOT NULL | Auto-generated timestamp |

**Table: category**

**Description**: Contains the all categories in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| categoryid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| catname | VARCHAR(50) | NOT NULL | Category name |
| description | VARCHAR(300) | NOT NULL | Category description |

**Table: platform**

**Description**: Contains the all platforms in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| platformid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| platform\_name | VARCHAR(20) | NOT NULL | Platform name |
| description | VARCHAR(300) | NOT NULL | Platform description |

**Table: game**

**Description**: Contains the all games in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| gameid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| title (UK) | VARCHAR(50) | NOT NULL | Game title |
| description | VARCHAR(300) | NOT NULL | Game description |
| year | INT | NOT NULL | Year of game release |
| image | BLOB | NULL | Game image |
| created\_at: | TIMESTAMP | NOT NULL | Auto-generated timestamp |

**Table: review**

**Description**: Contains the all game reviews in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| reviewid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| userid (FK) |  |  |  |
| gameid (FK) | INT | NOT NULL | FK referencing game.gameid |
| content | VARCHAR(1000) | NOT NULL | Review content |
| rating | INT | NOT NULL | Rating for the game (1-5) |
| created\_at | TIMESTAMP | NOT NULL | Auto-generated timestamp |

**Table: game\_and\_category**

**Description**: Junction table between all games and categories in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| id (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| gameid (FK) | INT | NOT NULL | FK referencing game.gameid |
| categoryid (FK) | INT | NOT NULL | FK referencing category.categoryid |

**Table: game\_and\_platform**

**Description**: Junction table between all games and platforms in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| id (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| gameid (FK) | INT | NOT NULL | FK referencing game.gameid |
| platformid (FK) | INT | NOT NULL | FK referencing platform.platformid |

**Table: price**

**Description**: Contains the prices of all games according to their platforms in the database

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| priceid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| gameid (FK) | INT | NOT NULL | FK referencing game.gameid |
| platformid (FK) | INT | NOT NULL | FK referencing platform.platformid |
| price | DECIMAL(5,2) | NOT NULL | Price of game on the platform |

**Table: cart**

**Description**: Cart for user to store games in for purchases

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| id (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| userid (FK) | INT | NOT NULL | FK referencing user.userid |
| gameid (FK) | INT | NOT NULL | FK referencing game.gameid |
| platformid (FK) | INT | NOT NULL | FK referencing platform.platformid |
| price | DECIMAL(5,2) | NOT NULL | Price of game on the platform |

**Table: purchase**

**Description**: Contains a history of purchases

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| id (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the row |
| userid (FK) | INT | NOT NULL | FK referencing user.userid |
| gameid (FK) | INT | NOT NULL | FK referencing game.gameid |
| platformid (FK) | INT | NOT NULL | FK referencing platform.platformid |
| price | DECIMAL(5,2) | NOT NULL | Price of game on the platform |
| created\_at | TIMESTAMP | NOT NULL | Auto-generated timestamp |