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SQL Documentation (CA2)

# Tables

Abbreviations:

* PK: Primary Key
* FK: Foreign Key
* U: Unique (by itself)
  + U*x*: same number x in same table – used together.

**Table: user**

To store users and their info

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| userid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the user |
| username | VARCHAR(50) | NOT NULL | Username of user |
| email (U) | VARCHAR(100) | NOT NULL | User’s email address |
| password | VARCHAR(50) | NOT NULL | User’s password |
| type | VARCHAR(50) | NOT NULL | User’s account type (Customer, Admin) |
| profile\_pic\_url | VARCHAR(500) | NOT NULL | URL to user’s profile picture |
| created\_at | TIMESTAMP | NOT NULL | Timestamp of account creation |

**Table: category**

Contains game categories.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| categoryid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the game category |
| catname (U) | VARCHAR(50) | NOT NULL | Name of category |
| description | VARCHAR(500) | NOT NULL | Description of the category |

**Table: platform**

stores a list of game platforms.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| platformid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the platform |
| platformname (U) | VARCHAR(50) | NOT NULL | Name of platform |
| description | VARCHAR(500) | NOT NULL | Description of platform |

**Table: game**

Stores list of games and its info (except platforms, price, and categories)

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| gameid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the game |
| title | VARCHAR(50) | NOT NULL | Name of game |
| description | VARCHAR(500) | NOT NULL | Description of the game |
| year | INT | NOT NULL | Release year of the game |
| created\_at | TIMESTAMP | NOT NULL | Timestamp of game creation |
| img\_name | VARCHAR(500) | NULL | Stores the file name of the image, if any |

**Table: gamesByCategory**

An intermediate table of which games are part of which categories (by id)

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| gameid (FK) (UQ1) | INT | NOT NULL | FK referencing games.gameid  DELETE CASCADE |
| categoryid (FK) (UQ1) | INT | NOT NULL | FK referencing categories. catid |

**Table: price**

Intermediate table that stores which games are on what platform (by id) and their price on it.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| gameid (FK) (UQ1) | INT | NOT NULL | FK referencing games.gameid  DELETE CASCADE |
| platformid (FK) (UQ1) | INT | NOT NULL | FK referencing platform.platformid |
| price | DECIMAL(6,2) | NOT NULL | Price of the game on the platform |

**Table: review**

Contains user reviews of games.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| reviewid (PK) | AUTO\_INCREMENT | NOT NULL | Identifier for the review |
| userid (FK) | INT | NOT NULL | FK referencing users.userid |
| gameid (FK) | INT | NOT NULL | FK referencing games.gameid  DELETE CASCADE |
| content | VARCHAR(500) | NOT NULL | User comment on the review |
| rating | CHAR(1) | NOT NULL | User’s review (out of 5) |
| created\_at | TIMESTAMP | NOT NULL | Timestamp of review creation |

**Table: cart**

Table that contains each user’s shopping cart. The cart will allow each user to get put only one of each game and platform.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| userid (FK) (UQ1) | INT | NOT NULL | FK referencing user.userid |
| gameid (FK) (UQ1) | INT | NOT NULL | FK referencing game.gameid  DELETE CASCADE |
| platformid (FK) (UQ1) | INT | NOT NULL | FK referencing platform.platformid |
| created\_at | TIMESTAMP | NOT NULL | Timestamp of shopping cart item creation |

**Table: preference**

Table contains userids and a category of game which they like.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| userid (FK) (UQ1) | INT | NOT NULL | FK referencing user.userid |
| categoryid (FK) (UQ1) | INT | NOT NULL | FK referencing category.categoryid |

**Table: purchase**

Table that contains each user’s owned games. The table will allow each user to get put only one of each game and platform.

|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Data Type** | **Null Constraint** | **Description** |
| userid (FK) (UQ1) | INT | NOT NULL | FK referencing user.userid |
| gameid (FK) (UQ1) | INT | NOT NULL | FK referencing game.gameid  DELETE CASCADE |
| platformid (FK) (UQ1) | INT | NOT NULL | FK referencing platform.platformid |
| purchased\_at | TIMESTAMP | NOT NULL | Timestamp of item purchase |

# Relationship Diagram

