

GamePlatformDB-documentation

Data Dictionary

2024-01-06

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Legend






-  Primary key
-  Primary key disabled
-  User-defined primary key
-  Unique key
-  Unique key disabled
-  User-defined unique key
-  Active trigger
-  Disabled trigger
-  Many to one relationship
-  User-defined many to one relationship
-  One to many relationship
-  User-defined one to many relationship
-  Many to many relationship
-  User-defined many to many relationship
-  One to one relationship
-  User-defined one to one relationship
-  Input
-  Output
-  Input/Output
-  Uses dependency
-  User-defined uses dependency
-  Used by dependency
-  User-defined used by dependency

GamePlatformDB-documentation

1. Tables

1.1. Table: Achievements

Columns

	Name	Data type	Description / Attributes
	AchievementID	int	Identity / Auto increment
	GameID	int	References: Games
	Description	text	
	Points	int	
	AchievementJson	text	Nullable

Links to

Table	Join	Title / Name / Description
 Games	Achievements GameID = GamesGameID	FK__Achieveme__GameI__32E0915F

Unique keys







Columns	Name / Description
 AchievementID	PK__Achievem__276330E0CF7E30BF

Uses



Name
 Achievements
 Games

1.2. Table: GameplayTime


Columns

Name		Data type	Description / Attributes
	 GameplayTimeID	int	Identity / Auto increment
	UserID	int	References: Users
	GameID	int	References: Games
	StartTime	datetimeoffset(7)	
	EndTime	datetimeoffset(7)	




Links to

Table	Join	Title / Name / Description
 Games	GameplayTime GameID = GamesGameID	FK__GameplayT__GameI__300424B4
 Users	GameplayTime UserID = UsersUserID	FK__GameplayT__UserI__2F10007B

Unique keys








Columns	Name / Description
 GameplayTimeID	PK__Gameplay__F656D74EF1D47883

Uses




Name
 GameplayTime
 Games
 Users

1.3. Table: Games

Columns

Name		Data type	Description / Attributes
	 GameID	int	Identity / Auto increment
	Title	nvarchar(100)	
	Description	nvarchar(255)	Nullable
	Genre	nvarchar(50)	Nullable
	ReleaseDate	date	
	GameData	text	Nullable




Linked from

Table	Join	Title / Name / Description
 Achievements	Games GameID = AchievementsGameID	FK__Achieveme__Gamel__32E0915F
 GameplayTime	Games GameID = GameplayTimeGameID	FK__GameplayT__Gamel__300424B4
 Transactions	Games GameID = TransactionsGameID	FK__Transacti__Gamel__2C3393D0

Unique keys






Columns	Name / Description
 GameID	PK__Games__2AB897DD7BED3898

Used By

Name
 Games
 Achievements
 GameplayTime
 Transactions

1.4. Table: Platforms

Columns









		Name	Data type	Description / Attributes
		PlatformID	int	Identity / Auto increment
		Name	nvarchar(50)	
		Description	nvarchar(255)	Nullable
		ReleaseDate	date	

Unique keys



Columns		Name / Description
	PlatformID	PK_Platform__F559F6DA0B52B9CC

1.5. Table: Transactions

Columns

Name		Data type	Description / Attributes
	 TransactionID	int	Identity / Auto increment
	UserID	int	References: Users
	GameID	int	References: Games
	Amount	money	
	TransactionDate	datetimeoffset(7)	
	PaymentMethod	nvarchar(50)	
	Status	nvarchar(50)	



Links to

Table		Join	Title / Name / Description
	Games	Transactions GameID = GamesGameID	FK__Transacti__Game__2C3393D0
	Users	Transactions UserID = UsersUserID	FK__Transacti__Userl__2B3F6F97

Unique keys









Columns		Name / Description
	TransactionID	PK__Transact__55433A4B7ACDC814

Uses



Name	
	Transactions
	Games
	Users

1.6. Table: Users



Columns

Name		Data type	Description / Attributes
 	UserID	int	Identity / Auto increment
	Username	nvarchar(50)	
 	Email	nvarchar(100)	
	Password	nvarchar(100)	
	JoinDate	datetimeoffset(7)	
	LastLogin	datetimeoffset(7)	Nullable




Linked from

Table	Join	Title / Name / Description
 GameplayTime	Users UserID = GameplayTimeUserID	FK__GameplayT__Userl__2F10007B
 Transactions	Users UserID = TransactionsUserID	FK__Transacti__Userl__2B3F6F97

Unique keys

Columns	Name / Description
 UserID	PK__Users__1788CCAC42755B22
 Email	UQ__Users__A9D10534FD1D5289

Used By

Name
 Users
 GameplayTime
 Transactions

2. Procedures

2.1. Procedure: GetPurchasedGamesByUser

Input/Output

Name		Data type	Description
→@	UserID	int	

Script

```
CREATE PROCEDURE GetPurchasedGamesByUser
    @UserID INT
AS
BEGIN
    SELECT g.GameID, g.Title, g.Genre, g.ReleaseDate
    FROM Games g
    INNER JOIN Transactions t ON g.GameID = t.GameID
    WHERE t.UserID = @UserID AND t.Status = 'Completed';
END;
```

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