

Table Design & Creation

Data Analyst Program - Project 1 – Mobile Gaming Database

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About This Project

Mobile Gaming database will include data about various users, their actual usage of a specific game, the length of their session and their FTD – First Time Deposit (if at all) to analyze their actions in order to try and maximize their specific profit.

ERD

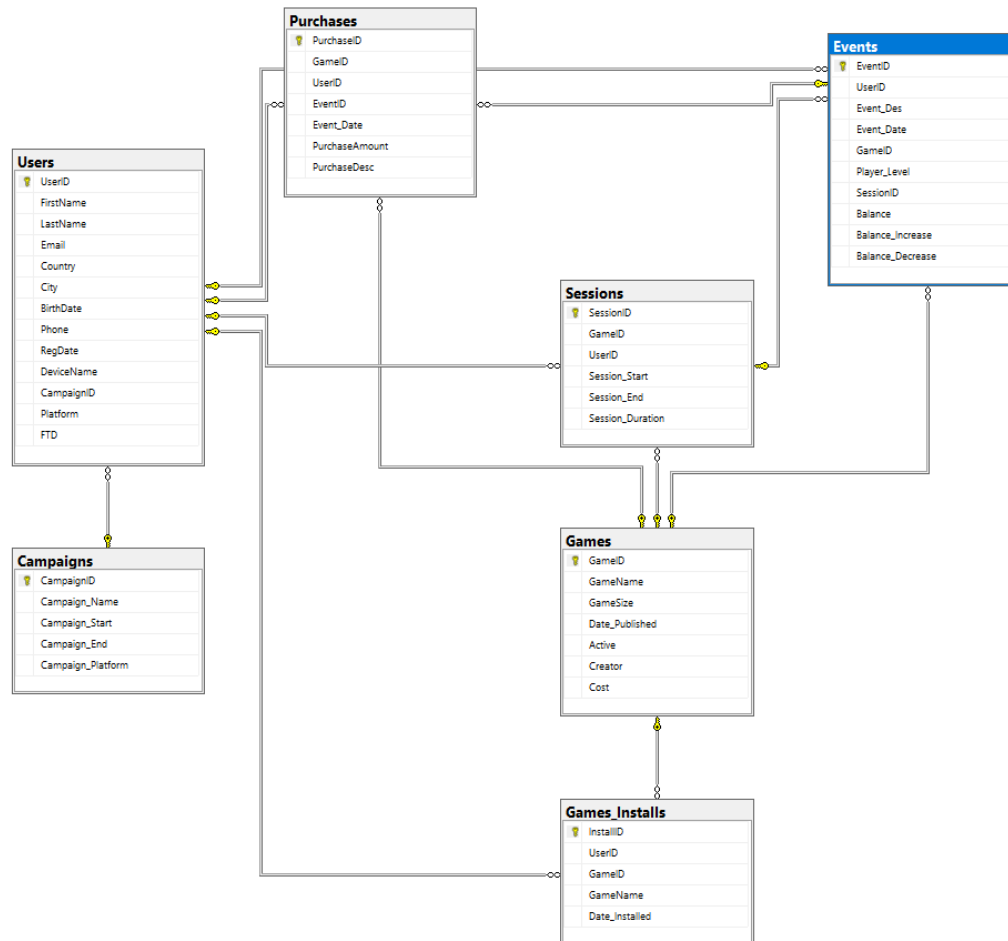


Table Description

Users (Dimension)

Keeps the details of various Users

UserID	INT	PK
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FirstName	VARCHAR(30)	
LastName	VARCHAR(30)	
Email	VARCHAR(40)	CHECK(email like '_%@_._%')
Country	VARCHAR(30)	NOT NULL
City	VARCHAR(25)	NOT NULL
BirthDate	DATE	
Phone	VARCHAR(25)	
RegDate	DATETIME (DEFAULT GETDATE())	
DeviceName	VARCHAR(20)	NOT NULL
CampaignID	INT	FK from Campaigns(CampaignID) Table
Platform	VARCHAR(20)	NOT NULL
FTD (First Time Deposit)	DATETIME	The first time the UserID made a Purchase

Games Table

Basic Games list table

GameID	INT	PK
GameName	VARCHAR(30)	UNIQUE
GameSize	INT	The game size in KB
Date_Published	DATE	
Active	VARCHAR(3) (Default 'Yes')	NOT NULL, CHECK(Active = 'Yes' OR Active = 'No')
Creator	VARCHAR(25)	
Cost	NUMERIC(8,2)	

Games Installs

Information about a User installing a specific game

InstallID	INT	PK
UserID	INT	FK in Users(UserID)
GameID	INT	FK in Games(GameID)
GameName	VARCHAR(30)	
Date_Installed		

Sessions

Information about a User Session time in a specific game

SessionID	INT	PK
GameID	INT	FK in Games(GameID)
UserID	INT	FK in Users(UserID)
Session_Start	DATETIME	NOL NULL
Session_End	DATETIME	
Session_Duration	INT	

Events

Information about the actual event a User have made in-game and if it inflicted his balance or not

EventID	INT	PK
UserID	INT	FK in Users(UserID)
Event_des	VARCHAR(50)	
Event_Date	DATETIME	
GameID	INT	FK in Games(GameID)
Player_Level	INT	
SessionID	INT	FK in Sessions(SessionID)

Balance	NUMERIC(15,2)	
Balance_Increase	NUMERIC(15,2)	
Balance_Decrease	NUMERIC(15,2)	

Purchases

Information about a Use's Purchase – Will also inflict the FTD in Users table

PurchaseID	INT	PK
GameID	INT	FK in Games(GameID)
UserID	INT	FK in Users(UserID)
EventID	INT	FK in Events(EventID)
Event_Date	DATETIME	NOT NULL
PurchaseAmount	NUMERIC(8,2)	NOT NULL
PurchaseDesc	VARCHAR(100)	

Campaigns

Information about a Campaign that brings Users into installing a Game

CampaignID	INT	PK
Campaign_Name	VARCHAR(50)	
Campaign_Start	DATETIME	NOT NULL
Campaign_End	DATETIME	
Campaign_Platform	VARCHAR(20)	NOT NULL

Script

Attach the database creation / population script in a separate file.