**Game Collection**

**Project Description:**

*You decide to catalog your video games in an Access database. In this project, you add two tables to a database you have started—one to identify the game system that plays your game and one to identify the category or genre of the game. Then you join the tables in a relationship and query the database to determine which games to take to a family party.*

**Instructions:**

For the purpose of grading the project you are required to perform the following tasks:

| **Step** | **Instructions** | **Points Possible** |
| --- | --- | --- |
| **1** | Start Access. Open the downloaded Access file named *exploring\_a02\_grader\_h2*. | 0 |
| **2** | Create a new table in Design view. Add the field name **SystemID** and select AutoNumber as the Data Type. Add the caption **System ID**. Set the SystemID field as the primary key for the table. | 8 |
| **3** | Add a second field named **SystemName** with the Short Text Data Type. Change the SystemName field size property to **15**. Add the caption **System Name**. Save the table as **System**. | 6 |
| **4** | Switch to Datasheet view and enter the following system names, letting Access assign the System ID:  **XBOX 360 PS3 Wii NES PC Game Nintendo 3DS**  Save and close the table. | 6 |
| **5** | Create a new table in Design view. Add the field name **CategoryID** and select AutoNumber as the Data Type. Add the caption **Category ID**. Set the CategoryID field as the Primary Key for the table. | 8 |
| **6** | Add a second field named **CategoryDescription** and accept Short Text as the Data Type. Change the field size property to **25**. Add the caption **Category Description**. Save the table as **Category**. | 8 |
| **7** | Switch to Datasheet view and enter the following system names letting Access assign the Category ID:  **Action Adventure Arcade Racing Rhythm Role-playing Simulation Sports**  Save and close the table. | 8 |
| **8** | Begin establishing relationships in the database by adding the Category, Games, and System tables to the Relationships window. Close the Show Table dialog box. Create a one-to-many relationship between the SystemID field in the System table and the SystemID field in the Games table, enforcing Referential Integrity. Select the option to cascade update the related fields. | 8 |
| **9** | Create a one-to-many relationship between the CategoryID field in the Category table and the CategoryID field in the Games table and enforcing Referential Integrity. Select the option to cascade update the related fields. Save and close the Relationships window. | 6 |
| **10** | Create a simple query using the Query Wizard. From the Games table, add the GameName and Rating fields (in that order). Save the query using the title **Ratings** and close the query. | 8 |
| **11** | Create a new query in Design view. Add the Category, Games, and System tables to the query design window. Add the following fields to the query (in this order).  GameName CategoryDescription Rating SystemName DateAcquired | 8 |
| **12** | Sort the query in Ascending order by GameName and run the query. Save the query as **Game List**. Close the query. | 8 |
| **13** | Copy the Game List query in the Navigation pane and paste it with the name **PS3 Games**. Modify the query in Design view by using **PS3** as the criteria for SystemName. Remove the sort by GameName and sort in Ascending order by CategoryDescription. Save and run the query. Close the query. | 8 |
| **14** | Create a new query in Design view. Add the Category, Games, and System tables to the query design window. Add the following fields to the query (in this order).  GameName Rating CategoryDescription SystemName | 6 |
| **15** | Set the Rating criteria so that only games with an **Everyone** rating display. Save the query as **Party** and run the query. Close the query. | 4 |
| **16** | Close all database objects. Close the database and then exit Access. Submit the database as directed. | 0 |
|  | **Total Points** | **100** |