

ASSIGNMENT 5

Files needed for the Assignment:

- **Rentals.accdb**

Files to Upload to Moodle:

- **Rentals.accdb**

Griffin and Emma MacElroy own and operate their own agency, GEM Ultimate Vacations, which specializes in locating and booking luxury rental properties in Europe and Africa. To track their guests, properties, and reservations, they created the Rentals database with the following tables:

- **tblReservation** – contains data about scheduled vacations by their client guests
 - **tblGuest** – contains data about guests
 - **tblProperty** – contains data about the available luxury rental properties
 - **tblPersonnel** – contains data about the people who manage the properties
 - **tblWork** - contains data about the management personnel assigned to each property
- The database also contains several queries, forms, and reports.

1. Open the **Rentals** database provided with your Data Files.
2. Use your first and last names for the first record in the **tblGuest** table.
3. Define a many-to-many relationship between **tblProperty** and **tblPersonnel** tables, using the **tblWork** table as the related table. Select the referential integrity option and cascade updates options for relationships.
4. Griffin and Emma added email data to their **tblPersonnel** table. But upon review, they found that many of their employees have a Null value for their email addresses. Hence, the data is not normalized. There are multiple Email addresses for personnel. You will need to create two new tables for this assignment and define a many-to-many relationship. Your new tables should include the following:
 - a. The **tblEmailType** table includes a unique EmailType ID (not specified in the data) and an EmailType description.
 - b. The **tblPersonnelEmail** table includes the PersonID, EmailTypeID, and Email Address.
 - c. For each table, ensure you have the following in place to receive full credit:
 - i. Correct primary key(s).
 - ii. Appropriate and meaningful names for the table and the fields.
 - iii. Correct data types for each field.
 - iv. Database relationships with enforced referential integrity and Cascade Updates turned on.
 - v. Data entered into the tables correctly.
 - d. You will also need to modify **tblPersonnel** to remove the redundant columns.

5. The **tblProperty** table contains a column for Awards and a column for Onsite Chefs. However, these items only apply to specific properties, as many sites have either no on-site chef nor an award. Because there are many properties that do not store this information, you can avoid using null values by creating separate tables to handle them. Your new tables should include the following:
 - a. The **tblPropertyAward** table should contain the PropertyID, AwardID, and AwardYear. It should allow for a property to receive multiple awards.
 - b. The **tblChef** table should contain only the PropertyID and chef. This should be a one-to-one relationship between tblProperty and tblChef.
 - c. For each table, ensure you have the following in place to receive full credit:
 - i. Correct primary key(s).
 - ii. Appropriate and meaningful names for the table and the fields.
 - iii. Correct data types for each field.
 - iv. Database relationships with enforced referential integrity and Cascade Updates turned on.
 - v. Data entered into the tables correctly
 - d. Modify **tblProperty** to remove the redundant columns.
6. Create a report based on the tblGuest table using the Create > Report tool. **Figure 1** shows a sample of the completed report. Refer to the figure as you create the report as well as these notes:
 - a. Save the report as rptGuest.
 - b. Use the Origin theme.
 - c. Include the current date and page number at the top of the report as shown. Display the Report title on the first page of the report only.
 - d. Set the alternate fill color for the Detail section to Background 1, Darker 5%.
 - e. Set the margins to .25 for Left, Right, Top, Bottom on a Portrait report.
 - f. *Hint: Use "Delete Column" to delete the unneeded column in the report.*
7. Create a custom report based on the qryGuestsByProperty query using Blank Report (see "Sample Report Creation" under Course Files Week 5 for additional assistance. **Figure 2** shows a sample of the completed report. Refer to the figure as you create the report as well as these notes:
 - a. Save the report as **rptGuestsByProperty**.
 - b. Use PropertyName field as a grouping field, and use the StartDate field as a sort field. Make sure the PropertyName field is in the PropertyName Header.
 - c. Use a Page Setup of Landscape with Margins Top,Bottom=0.5; Left,Right = 1.
 - d. If the Rental Rate is greater than \$2,000, set the conditional formatting to Bold, Purple.
 - e. Display the Report title on every page, along with the page numbers and current date.
 - f. Add subtotals and lines as shown in Figure 1.

8. Create an outer join query between the tblGuest and tblReservation tables, selecting all records from the tblGuest table and any matching records from tblReservation. Display the GuestFirstName, GuestLastName and City fields from tblGuest, and PropertyID and RentalRate fields from tblReservation. Save the query as **qryGuestReservationOuterJoin** and then run and close the query.
9. Create an outer join query between tblProperty and tblReservation tables, selecting all records from tblProperty and any matching records from tblReservation. Display the PropertyName, Location, and Nightly Rate from tblProperty and ReservationID, StartDate and RentalRate from tblReservation. Save the query as **qryPropertyReservationOuterJoin** and then run and close the query.
10. Compact and repair the Rentals database, and then close the database and upload it to Moodle.

Figure 1:

Guests

Sunday, December 02, 2012

10:21:53 PM

Guest Last Name	Guest First Name	Address	City	State/Prov	Postal Code	Country
Name	Student	153 Summer Ave	Evansston	IL	60201	USA
Gorman	Ingrid	207 Riverside Dr West	Windsor	ON	N9A 5K4	Canada
Davis	Tom	5003 Wilson Blvd	Chicago	IL	60603	USA
Nelson	Richard	34 Settlers Dr	Tinley Park	IL	60477	USA
Zhu	Li	6509 Great Rd	Gary	IN	46401	USA
Simmons	Greta	17 Westview Ave	Chicago	IL	60601	USA
Neeley	Alex	308 Lakeside Dr	Chicago	IL	60601	USA
Neto	Luiz	8552 Main St	Chicago	IL	60602	USA
Vanesse	Sarah	35 Park Rd	Crown Point	IN	46307	USA
Froberg	Janet	433 Monroe St	Aurora	IL	60504	USA
Campbell	Brian	14 Spencer Blvd	Gary	IN	46402	USA
Gupta	Linda	130 Elm St	Evansston	IL	60202	USA
Roux	Maddie	443 Front Rd	LaSalle	ON	N9J 2N7	Canada
LaSalle	Peter	2120 E Lombard Rd	Gary	IL	46401	USA
Azevedo	Alberto	991 Crestview Dr	Chicago	IL	60601	USA
Shevlin	Amy	118 Forest Rd	Hammond	IN	46320	USA
Kalnajs	Lucas	3 March Rde	Crown Point	IN	46307	USA
Skolnik	Kelly	15 Tobin Dr	Wilmington	IL	60481	USA
Locke	Chris	4478 Howard Ave	Windsor	ON	N8X 3Y8	Canada
Marchant	Paul	7533 Macleod Dr	Chicago	IL	60603	USA
Goetz	Susan	29 Evergreen Rd	Aurora	IL	60507	USA

FIGURE 2:

Page 3 of 3

GUEST BY PROPERTY

12/2/2012

Guest First Name	Guest Last Name	City	State/Prov	Phone	Start Date	People	Rental Rate
Richard	Nelson	Tinley Park	IL	708-292-4441	11/16/2013	11	\$2,700
						11	\$2,700
Riyad Premiere							
Ingrid	Gorman	Windsor	ON	519-977-8577	09/08/2013	7	\$1,200
						7	\$1,200
Villa Leopoldo							
Alberto	Azevedo	Chicago	IL	312-842-1183	05/01/2013	6	\$1,000
						6	\$1,000
Villa San Vincenzo							
Li	Zhu	Gary	IN	219-655-8109	06/03/2013	6	\$750
Janet	Froberg	Aurora	IL	630-788-3055	10/02/2013	5	\$700
						11	\$1,450
						200	\$38,750