

# CIT 214-MySQL Activity 1

## MySQL –Colonial Adventure Tours Database

### Data Definitions

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**Use MySQL Workbench to do the following tasks:**

#### **Part 1:**

- Create a database name ColonialAdventureTours
- In ColonialAdventureTours database, create a table named ADVENTURE\_TRIP. The table has the same structure as the TRIP table shown in Figure-1 except the TRIP\_NAME column should use the VARCHAR data type and the DISTANCE and MAX\_GRP\_SIZE columns should use the integer data type.
- Execute the command to describe the layout and characteristics of the ADVENTURE\_TRIP table.
- Add the following row to the ADVENTURE\_TRIP table: trip ID: 45; trip name: Jay Peak; start location: Jay; state: VT; distance: 8; maximum group size: 8; type: Hiking and season: Summer. After adding the data, display the contents of the ADVENTURE\_TRIP table.
- Delete the ADVENTURE\_TRIP table.

Figure 1: Colonial Adventure Tours Database Table Structure

Creating Tables

**GUIDE**

Column	Type	Length	Decimal places	Nulls allowed?	Description
GUIDE_NUM	CHAR	4		No	Guide number (primary key)
LAST_NAME	CHAR	15			Guide last name
FIRST_NAME	CHAR	15			Guide first name
ADDRESS	CHAR	25			Guide street address
CITY	CHAR	25			Guide city
STATE	CHAR	2			Guide state
POSTAL_CODE	CHAR	5			Guide postal code
PHONE_NUM	CHAR	12			Guide phone number
HIRE_DATE	DATE				Date guide was hired

**TRIP**

Column	Type	Length	Decimal places	Nulls allowed?	Description
TRIP_ID	DECIMAL	3	0	No	Trip ID (primary key)
TRIP_NAME	CHAR	75			Trip name
START_LOCATION	CHAR	50			Start location for trip
STATE	CHAR	2			Trip state
DISTANCE	DECIMAL	4	0		Distance (length) of trip
MAX_GRP_SIZE	DECIMAL	4	0		Maximum number of persons
TYPE	CHAR	20			Trip type
SEASON	CHAR	20			Trip season

**CUSTOMER**

Column	Type	Length	Decimal places	Nulls allowed?	Description
CUSTOMER_NUM	CHAR	4		No	Customer number (primary key)
LAST_NAME	CHAR	30			Customer last name
FIRST_NAME	CHAR	30			Customer first name
ADDRESS	CHAR	35			Customer street address
CITY	CHAR	35			Customer city
STATE	CHAR	2			Customer state
POSTAL_CODE	CHAR	5			Customer postal code
PHONE	CHAR	12			Customer phone number



RESERVATION					
Column	Type	Length	Decimal places	Nulls allowed?	Description
RESERVATION_ID	CHAR	7		No	Reservation ID (primary key)
TRIP_ID	DECIMAL	3	0		Trip ID of the trip being reserved
TRIP_DATE	DATE				Trip date
NUM_PERSONS	DECIMAL	3	0		Number of persons in reservation
TRIP_PRICE	DECIMAL	6	2		Trip price per person
OTHER_FEES	DECIMAL	6	2		Other fees per person
CUSTOMER_NUM	CHAR	4			Customer number

  

TRIP_GUIDES					
Column	Type	Length	Decimal places	Nulls allowed?	Description
TRIP_ID	DECIMAL	3	0	No	Trip ID (primary key)
GUIDE_NUM	CHAR	4		No	Guide number (primary key)

## Part 2:

You will create five tables in your ColonialAdventureTours database. Please do not write your own SQL Commands for this task, use data found in the following Colonial\_create.txt file and copy and paste the commands into MySQL workbench. Then add Primary key, Foreign key, and not null constraints appropriately. Then run your codes.

## Note:

Remember that since you enforced referential integrity (foreign key constraints) that you must create the "**primary**" tables before you can create the "**related**" tables in the relationship. [Create tables in right orders].

## Part 3:

The [Colonial\\_Insert.txt](#) file provided with this activity contains the MySQL commands that you can use to insert the data into the tables that you created in part 2. Copy and paste the commands into MySQL environment and execute.

**Note: insert data in the right order.** Remember that since we enforced referential integrity (foreign key constraints) that you must insert all of the data into the "*one*" tables before you can enter the data into the "*many*" tables in the relationship.

#### **Part 4:**

Write and run MySQL Commands that will provide the following information listed below.

- List all the table names in your database
- List all the constraint names in your database
- List the Column names and data types of each table  
(only one Command per table)
- List all data from each table that you created one table at a time.