

University of the Cordilleras
College of Information Technology and Computer Science
SQL Individual Lab Activity No. 4

ICS 5 Lab - Section 2A – 5:30 – 6:45 MWF

Defining Foreign Keys inserting data to tables

IMPORTANT: DO NOT proceed to this activity yet when Activity 2 and/or 3 are not yet finished. Let your instructor check the previous lab activities first before doing this activity.

Objectives:

- To demonstrate how to insert data to tables using SQL

Activity:

1. Open the Xampp Control Panel and start the MySQL module.
2. Open Windows Command Prompt and access the MySQL Module using the user account `foo-2a2t1718`.
3. Once inside MySQL prompt, use the database `BUS_DB_TerminalNo` that was created on Lab Act 2 and was modified in Lab Act 3.
4. Below is an updated data dictionary of the BUS TRIP MONITORING SYSTEM with additional tables which are highlighted. Create these tables inside your `BUS_DB` database. Indicate also the column/s which are foreign key for every table during the creation of the tables.

**BUS TRIP MONITORING SYSTEM
DATA DICTIONARY**

Table Name	Column	Description	Data Type and Length	Required	PK or FK	Reference table if FK
PASSENGER	PASSENGER_ID	Passenger's ID number	VARCHAR(10)	YES	PK	
	PASSENGER_FNAME	Passenger's First Name	VARCHAR(20)	YES	N/A	
	PASSENGER_LNAME	Passenger's Last Name	VARCHAR(20)	YES	N/A	
	PASSENGER_BDATE	Passenger's Birth Date	DATE	YES	N/A	
	PASSENGER_ADDRESS	Passenger's Address	VARCHAR(100)	YES	N/A	
	PASSENGER_ADDRESS_ZIP	Passenger's Zip Code	VARCHAR(4)	YES	N/A	
	PASSENGER_CONTACT_NO	Passenger's Contact Number	VARCHAR(15)	YES	N/A	
BUS	BUS_NO	Bus' identification number	INT(5)	YES	PK	
	BUS_MAKE	Bus' type and model	VARCHAR(25)	YES	N/A	
	BUS_PLATE_NO	Bus' plate number	VARCHAR(8)	YES	N/A	
	BUS_CAP	Bus' seating capacity	INT(2)	YES	N/A	
	BUS_ACQ	Bus' acquisition date	DATE	YES	N/A	
DRIVER	DRIVER_ID	Driver's ID number	INT(6)	YES	PK	

	DRIVER _FNAME	Driver's First Name	VARCHAR(30)	YES	N/A	
	DRIVER _LNAME	Driver's Last Name	VARCHAR(30)	YES	N/A	
	DRIVER _BDATE	Driver's Birthdate	DATE	YES	N/A	
ROUTE	ROUTE_NO	Route's number	INT(3)	YES	PK	
	ROUTE_ORIGIN	Route's Origin	VARCHAR(20)	YES	N/A	
	ROUTE_DESTINATION	Route's Destination	VARCHAR(20)	YES	N/A	
	ROUTE_SCHEDULE	Route's Trip Schedule	DATE	YES	N/A	
TICKET	TICKET_ID	Ticket type's ID	INT(2)	YES	PK	
	TICKET_TYPE	Ticket type name	VARCHAR(10)	YES	N/A	
	TICKET_PRICE	Ticket type's price	NUMERIC(5,2)	YES	N/A	
TRIP	TRIP_NO	Trip's number	INT(10)	YES	PK	
	BUS_NO	Bus' identification number	INT(5)	YES	FK	BUS
	ROUTE_NO	Route's number	INT(3)	YES	FK	ROUTE
ASSIGNMENT	ASSIGNMENT_NO	Assignment's number	INT(5)	YES	PK	
	DRIVER_ID	Driver's ID number	INT(6)	YES	FK	DRIVER
	TRIP_NO	Trip's number	INT(10)	YES	FK	TRIP
TICKET_DETAILS	TICKET_NO	Ticket's No	VARCHAR(10)	YES	PK	
	PASSENGER_ID	Passenger's ID number	VARCHAR(10)	YES	FK	PASSENGER
	TICKET_ID	Ticket type's ID	INT(2)	YES	FK	TICKET
	TRIP_NO	Trip's number	INT(10)	YES	FK	TRIP

5. Populate the PASSENGER and BUS tables with the data below. Use the INSERT INTO command to input the following data. Research on the correct format of the PASSENGER_BDATE and BUS_ACQ columns on how it should be inserted into the table.

PASSENGER TABLE DATA

PASSENGER_ID	PASSENGER_FNAME	PASSENGER_LNAME	PASSENGER_BDATE	PASSENGER_ADDRESS	PASSENGER_ADDRESS ZIP	PASSENGER_CONTACT NO
1000562314	TONY	STARK	May 1 1988	120 NORTH DRIVE, BAGUIO CITY	2600	0910-1234567
1000562315	JESSICA	DREW	Dec 2 1985	56 SPRING HILLS, DAVAO CITY	8000	0911-1234567
1000562316	BARBARA	GORDON	Jan 14 1990	569 BEVERLY HILLS, MANILA	1000	0912-1234567
1000562317	CLARK	KENT	Dec 16 1973	1516 BEL AIR, MAKATI CITY	1209	0913-1234567
1000562318	STEVEN	ROGERS	Aug 4 1982	28 SOUTH DRIVE, BATANGAS	4200	0914-1234567

10005623 19	CATHERINE	BELL	Feb 19 1988	789 CURVED ROAD, TAGAYTAY CITY	4120	0915-1234567
10005623 20	CASSANDRA	LANE	Mar 6 1975	402 SERVICE ROAD, CORON PALAWAN	5316	0916-1234567
10005623 21	HENRY	MCCOY	May 1 1988	708 LOWER HILL, MANILA	1000	0917-1234567
10005623 22	CARRIE	KELLEY	May 4 1992	111 VALLEY VIEW, BAGUIO CITY	2600	0918-1234567
10005623 23	SCOTT	SUMMERS	Jun 12 1995	200 GOVERNOR PACK ROAD, BAGUIO CITY	2600	0919-1234567

BUS TABLE DATA

BUS_NO	BUS_MAKE	BUS_PLATE_NO	BUS_CAP	BUS_ACQ
20526	TRAVELER 502	ADF 562	42	May 1, 2015
15690	JOURNEY 1563	AUV 145	44	June 4, 2013
16491	TRAVELER 203	ADL 562	44	Sep 9, 2017
25631	COMMUTER 5A	AAA 1000	50	May 7, 2017
62311	COMMUTER 1	ADE 890	47	Jan 3, 2009
26410	TRAVELER 502	ACE 245	42	Feb 6, 2014
65300	JOURNEY 5632	AAB 2648	47	Apr 5, 2008
46126	DESTINY ACE	ADE 256	50	Dec 17, 2011
31181	TRAVELER 5004	DEG 415	48	Nov 1, 2014
20002	DESTINY PREMIERE	ZZZ 1564	23	Mar 23, 2018

- Exit from mysql and make sure you are in C:\xampp\mysql\bin.
- Save a backup of your database in Drive Z by typing **mysqldump -u foo-2a2t1718 -p BUS_DB_TerminalNo > Z:\LastName_FirstName_Act4.sql**
- Enter the password when prompted.
- Check your drive Z to verify if you have successfully saved a backup of your database.