Mark Wagner
Lab 6
SDEV300-7983
4/25/2019

SQL STATEMENTS

mysql> use sdev300;
Database changed
mysql>
mysql> -- Create Table Faculty
mysql>
mysql> -- Alter Date
mysql>
mysql> ALTER SESSION SET NLS_DATE_FORMAT='YYYY-MM-DD';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version fo
='YYYY-MM-DD'' at line 1
mysql>
mysql> CREATE TABLE Faculty (
    -> EMPLID int NOT NULL,
    -> FirstName varchar(30),
    -> LastName varchar(30),
    -> Email varchar(60),
    -> YearOfBirth Integer,
    -> HireDate Date,
    -> PRIMARY KEY (EMPLID)
    ->);
Query OK, 0 rows affected (0.05 sec)

mysql>
mysql>
mysql>
mysql> -- Create Table Courses
mysql>
mysql> CREATE TABLE Courses (
    -> CourseID int NOT NULL,
    -> CourseDisc varchar(40),
    -> CourseNum varchar(4),
    -> NumberOfCredits int,
    -> YearOffered int,
    -> CourseTitle varchar(75),
    -> PRIMARY KEY (CourseID)
    ->);
ERROR 1050 (42S01): Table 'courses' already exists
mysql>
mysql>
mysql>
mysql> -- Create Table FacultyCourses
mysql>
mysql> CREATE TABLE FacultyCourses (
    -> FacultyCourseID int NOT NULL,
    -> CourseID int,
    -> EMPLID int,
    -> PRIMARY KEY (FacultyCourseID)
    ->);
Query OK, 0 rows affected (0.05 sec)

Creating Tables

Hostname: EC2AMAZ-TJTSF85
Architecture: AMD64

Recycle Bin   manager-w...
              - Shortcut

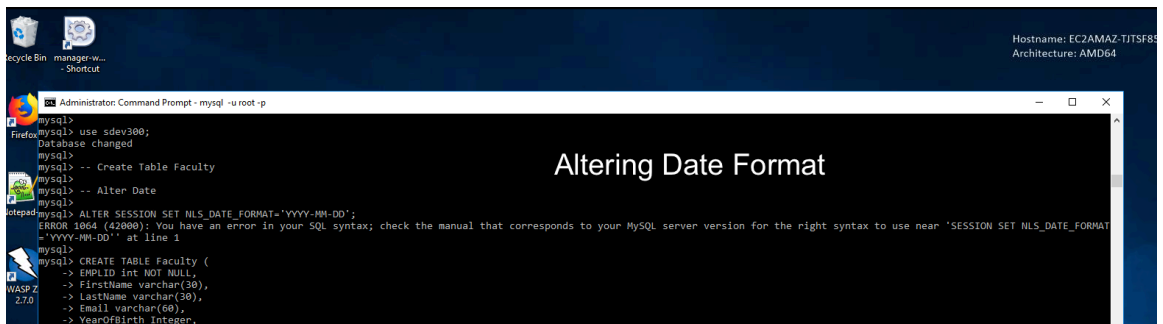Administrator: Command Prompt - mysql -u root -p

Altering Date Format

mysql>
mysql> use sdev300;
Database changed
mysql>
mysql> -- Create Table Faculty
mysql>
mysql> -- Alter Date
mysql>
mysql> ALTER SESSION SET NLS_DATE_FORMAT='YYYY-MM-DD';
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'SESSION SET NLS_DATE_FORMAT
='YYYY-MM-DD'' at line 1
mysql>
mysql> CREATE TABLE Faculty (
    -> EMPLID int NOT NULL,
    -> FirstName varchar(30),
    -> LastName varchar(30),
    -> Email varchar(60),
    -> YearOfBirth Integer,

```
mysql> DELETE FROM Courses WHERE YearOffered = 2004;
ERROR 1054 (42S22): Unknown column 'YearOffered' in 'where clause'
mysql>
mysql> -- Show all records
mysql>
mysql> SELECT * FROM Faculty ORDER BY LastName DESC;
+-------+-----------+----------+----------------------+------------+------------+
| EMPLID | FirstName | LastName | Email               | YearOfBirth | HireDate  |
+-------+-----------+----------+----------------------+------------+------------+
|     3 | Alixis    | Prinnil  | yoder99@gmail.com    |       1951 | 2010-04-17 |
|    13 | Needra    | Prinnil  | yoder99@gmail.com    |       1958 | 2019-04-17 |
|     5 | Joe       | Petersen | jrpetersen@gmail.com |       1992 | 2005-12-03 |
|    15 | Bojkr     | Petersen | jrpetersen@gmail.com |       1992 | 2005-12-03 |
|     9 | Yobe      | Nihatzu  | 64880broyi@gmail.com |       1988 | 1991-09-12 |
|    19 | Migao     | Nihatzu  | 64880broyi@gmail.com |       1928 | 1981-09-12 |
|     4 | Craig     | Newmark  | yoder8s@gmail.com    |       1957 | 2009-02-04 |
|    14 | Daya      | Newmark  | yoder8s@gmail.com    |       1993 | 2009-02-04 |
|     6 | Dan       | Migginas | byronrice@rush.com   |       1973 | 2010-07-30 |
|    16 | Seva      | Migginas | byronrice@rush.com   |       1990 | 2011-07-30 |
|     2 | Tommy     | Jones    | blingodd@yahoo.com   |       1983 | 2017-07-08 |
|    12 | Willard   | Jones    | blingodd@yahoo.com   |       1993 | 2017-07-08 |
|     1 | Greg      | Griffith | 21pantas@gmail.com   |       1985 | 2017-06-12 |
|    11 | Mark      | Griffith | 21pantas@gmail.com   |       1993 | 2017-06-12 |
|     7 | Dede      | Flemming | properca@gmail.com   |       1978 | 2002-03-04 |
|    17 | Ballzes   | Flemming | properca@gmail.com   |       1978 | 2012-03-04 |
|     8 | Paul      | Allen    | woodward33@gmail.com |       1974 | 2001-02-20 |
|    18 | Chris     | Allen    | woodward33@gmail.com |       1971 | 2009-02-20 |
+-------+-----------+----------+----------------------+------------+------------+
18 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM Courses ORDER BY CourseTitle ASC;
+----------+-----------+-----------+------------------------+
| CourseID | CourseDisc | CourseNum | CourseTitle           |
+----------+-----------+-----------+------------------------+
|        2 | SDEV      |       360 | Secure Software LifeCycle |
|        1 | SDEV      |       300 | Secure Web Development |
+----------+-----------+-----------+------------------------+
2 rows in set (0.00 sec)

mysql>
mysql> SELECT * FROM FacultyCourses ORDER BY FacultyCourseID ASC;
+-----------------+----------+--------+
| FacultyCourseID | CourseID | EMPLID |
+-----------------+----------+--------+
|               1 |       15 |      1 |
|               2 |        1 |      1 |
|               3 |        3 |      9 |
|               4 |       14 |      2 |
|               5 |        6 |      3 |
```

Printing All

Printing By Title

Printing Lookup Table by FacultyID

```
mysql> SELECT * from FacultyCourses, Courses, Faculty where FacultyCourses.CourseID = Courses.CourseID and FacultyCourses.EMPLID= Faculty.EMPLID;
+-----------------+----------+--------+----------+-----------+-----------+--------------------------+--------+-----------+----------+----------------------+------------+
| FacultyCourseID | CourseID | EMPLID | CourseID | CourseDisc | CourseNum | CourseTitle             | EMPLID | FirstName | LastName | Email               | YearOfBirth |
+-----------------+----------+--------+----------+-----------+-----------+--------------------------+--------+-----------+----------+----------------------+------------+
|               2 |        1 |      1 |        1 | SDEV      |       300 | Secure Web Development   |      1 | Greg      | Griffith | 21pantas@gmail.com   |       1985 |
|               6 |        1 |      4 |        1 | SDEV      |       300 | Secure Web Development   |      4 | Craig     | Newmark  | yoder8s@gmail.com    |       1957 |
|              14 |        2 |      9 |        2 | SDEV      |       360 | Secure Software LifeCycle |      9 | Yobe      | Nihatzu  | 64880broyi@gmail.com |       1988 |
```

SUPER TABLE

```
281    -- Faculty < 3 Courses
282
283    SELECT FacultyCourses.EMPLID, Faculty.FirstName, COUNT(FacultyCourses.EMPLID) as "courses_taught"
284    from FacultyCourses, Faculty, Courses
285    where FacultyCourses.EMPLID=Faculty.EMPLID and FacultyCourses.CourseID=Courses.CourseID
286    group by FacultyCourses.EMPLID, Faculty.FirstName
287    order by COUNT(FacultyCourses.EMPLID) DESC
288
```

EMPLID	FIRSTNAME	courses_taught
1	Greg	3
3	Alixis	3
19	Migao	2
12	Willard	2
9	Yobe	2
7	Dede	1
4	Craig	1
16	Seva	1

Printing Teachers with <= 3 Courses

```
 YearOffered < 1999 ORDER BY CourseTitle ASC' at line 9
mysql>
mysql> -- Join 3 Tables
mysql>
mysql> SELECT * from FacultyCourses, Courses, Faculty where FacultyCourses.CourseID = Courses.CourseID and FacultyCourses.EMPLID= Faculty.EMPLID;
+---------------+----------+--------+----------+-----------+-----------+-------------------------+--------+-----------+----------+----------------------+------------+-----------+
| FacultyCourseID | CourseID | EMPLID | CourseID | CourseDisc | CourseNum | CourseTitle            | EMPLID | FirstName | LastName | Email                | YearOfBirth | HireDate |
|               |          |        |          |           |           |                         |        |           |          |                      |            |           |
+---------------+----------+--------+----------+-----------+-----------+-------------------------+--------+-----------+----------+----------------------+------------+-----------+
|             2 |        1 |      1 |        1 | SDEV      | 300       | Secure Web Development   |      1 | Greg      | Griffith | 21pantas@gmail.com   | 1985       | 2017-06-1 |
|             6 |        1 |      4 |        1 | SDEV      | 300       | Secure Web Development   |      4 | Craig     | Newmark  | yoder8s@gmail.com    | 1957       | 2009-02-0 |
|            14 |        2 |      9 |        2 | SDEV      | 360       | Secure Software LifeCycle |    9 | Yobe      | Nihatzu  | 64880broyi@gmail.com | 1988       | 1991-09-1 |
+---------------+----------+--------+----------+-----------+-----------+-------------------------+--------+-----------+----------+----------------------+------------+-----------+
3 rows in set (0.00 sec)                           Cleaning Up

mysql>
mysql> DROP TABLE Faculty;
Query OK, 0 rows affected (0.09 sec)

mysql> DROP TABLE Courses;
ERROR 1217 (23000): Cannot delete or update a parent row: a foreign key constraint fails
mysql> DROP TABLE FacultyCourses;_
```

SPOOL FILE:

Statement processed. Table created. Table created. Table created. 1 row(s) inserted. 1
row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted.
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1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s)
inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1
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inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1
row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted.
1 row(s) inserted. 1 row(s) inserted. 1 row(s) inserted. 20 row(s) updated. 0 row(s)
updated. 2 row(s) deleted. 2 row(s) deleted.

Result Set 1

EMPLID	FIRSTNAME	LASTNAME	EMAIL	YEAROFBIRTH	HIREDATE
13	Needra	Prinnil	yoder99@gmail.com	1958	2019-04-17
3	Alixis	Prinnil	yoder99@gmail.com	1951	2010-04-17
5	Joe	Petersen	jrpetersen@gmail.com	1992	2005-12-03
15	Bojkr	Petersen	jrpetersen@gmail.com	1992	2005-12-03
9	Yobe	Nihatzu	64880broyi@gmail.com	1988	1991-09-12
19	Migao	Nihatzu	64880broyi@gmail.com	1928	1981-09-12
14	Daya	Newmark	yoder8s@gmail.com	1993	2009-02-04
4	Craig	Newmark	yoder8s@gmail.com	1957	2009-02-04
16	Seva	Migginas	byronrice@rush.com	1990	2011-07-30
6	Dan	Migginas	byronrice@rush.com	1973	2010-07-30
12	Willard	Jones	blingodd@yahoo.com	1993	2017-07-08
2	Tommy	Jones	blingodd@yahoo.com	1983	2017-07-08

1	Greg	Griffith	21pantas@gmail.com	1985	2017-06-12
11	Mark	Griffith	21pantas@gmail.com	1993	2017-06-12
7	Dede	Flemming	properca@gmail.com	1978	2002-03-04
17	Ballzes	Flemming	properca@gmail.com	1978	2012-03-04
8	Paul	Allen	woodward33@gmail.com	1974	2001-02-20
18	Chris	Allen	woodward33@gmail.com	1971	2009-02-20

18 rows selected.

Result Set 2

COURSE ID	COURSEDISC	COURSENUM	NUMBEROFCREDITS	YEAROFFERED	COURSETITLE
20	PRDD	131	6	2003	Advanced SAP
4	CMSC	343	6	2001	Binary
17	CMSC	409	6	2012	Build A Modem
1	SDEV	300	6	1996	Building Secure Web Applications
12	CMSC	422	6	1974	C++
3	MATH	301	6	1995	Calc
5	BUSN	151	6	1998	Finance
8	MATH	301	6	2017	Geometry
7	CMSC	485	6	2013	Into to Computer Science
9	CMSC	373	6	2007	Java
10	BUSN	191	6	2019	M&A
16	CMIS	300	6	2000	MS Dos
15	MMTT	111	6	2003	Money Making Essentials
18	CMIS	325	6	2009	Production Teams
2	CMSC	495	6	1992	Puzzles
6	SDEV	360	6	2008	Servers
13	MATH	302	6	1992	Statistics
11	SDEV	307	6	2010	Web

					Applications II

18 rows selected.

Result Set 3

FACULTYCOURSEID	COURSEID	EMPLID
1	15	1
2	1	1
3	3	9
4	14	2
5	6	3
6	1	4
7	6	5
8	2	10
9	16	10
10	8	16
11	7	7
12	19	18
13	12	19
14	2	9
15	14	16
16	3	3
17	9	10
18	8	12
19	14	17
20	3	15
21	16	12
22	4	3
23	15	6
24	13	19
25	10	1

25 rows selected.

Result Set 4

EMPLID	FIRSTNAME	courses_taught
1	Greg	3

3	Alixis	3
19	Migao	2
12	Willard	2
9	Yobe	2
7	Dede	1
4	Craig	1
16	Seva	1
15	Bojkr	1
5	Joe	1
6	Dan	1

Download CSV
11 rows selected.

Result Set 5

COURSEID	COURSEDISC	COURSENUM	NUMBEROFCREDITS	YEAROFFERED	COURSETITLE
1	SDEV	300	6	1996	Building Secure Web Applications
12	CMSC	422	6	1974	C++
3	MATH	301	6	1995	Calc
5	BUSN	151	6	1998	Finance
2	CMSC	495	6	1992	Puzzles
13	MATH	302	6	1992	Statistics

Download CSV
6 rows selected.

Result Set 6

FACULTYCOURSEID	COURSEID	EMPLID	COURSEID	COURSEDISC	COURSENUM	NUMBEROFCREDITS	YEAROFFERED	COURSETITLE	EMPLID	FIRSTNAME	LASTNAME	EMAIL	YEAROFBIRTH	HIREDATE
1	15	1	15	MMTT	111	6	2003	Money Making Essentials	1	Greg	Griffith	21pantas@gmail.com	1985	2017-06-12
2	1	1	1	SDEV	300	6	1996	Building	1	Greg	Griffit	21pantas@g	1985	2017-

								Secure Web Applications			h	mail.com		06-12
25	10	1	10	BUSN	191	6	2019	M&A	1	Greg	Griffith	21pantas@gmail.com	1985	2017-06-12
5	6	3	6	SDEV	360	6	2008	Servers	3	Alixis	Prinnil	yoder99@gmail.com	1951	2010-04-17
16	3	3	3	MATH	301	6	1995	Calc	3	Alixis	Prinnil	yoder99@gmail.com	1951	2010-04-17
22	4	3	4	CMSC	343	6	2001	Binary	3	Alixis	Prinnil	yoder99@gmail.com	1951	2010-04-17
6	1	4	1	SDEV	300	6	1996	Building Secure Web Applications	4	Craig	Newmark	yoder8s@gmail.com	1957	2009-02-04
7	6	5	6	SDEV	360	6	2008	Servers	5	Joe	Petersen	jrpetersen@gmail.com	1992	2005-12-03
23	15	6	15	MMTT	111	6	2003	Money Making Essentials	6	Dan	Migginas	byronrice@rush.com	1973	2010-07-30
11	7	7	7	CMSC	485	6	2013	Into to Computer Scie	7	Dede	Flemming	properca@gmail.com	1978	2002-03-04

								nce						
3	3	9	3	MATH	301	6	1995	Calc	9	Yobe	Nihatzu	64880broyi@gmail.com	1988	1991-09-12
14	2	9	2	CMSC	495	6	1992	Puzzles	9	Yobe	Nihatzu	64880broyi@gmail.com	1988	1991-09-12
18	8	12	8	MATH	301	6	2017	Geometry	12	Willard	Jones	blingodd@yahoo.com	1993	2017-07-08
21	16	12	16	CMIS	300	6	2000	MSDos	12	Willard	Jones	blingodd@yahoo.com	1993	2017-07-08
20	3	15	3	MATH	301	6	1995	Calc	15	Bojkr	Petersen	jrpetersen@gmail.com	1992	2005-12-03
10	8	16	8	MATH	301	6	2017	Geometry	16	Seva	Migginas	byronrice@rush.com	1990	2011-07-30
13	12	19	12	CMSC	422	6	1974	C++	19	Migao	Nihatzu	64880broyi@gmail.com	1928	1981-09-12
24	13	19	13	MATH	302	6	1992	Statistics	19	Migao	Nihatzu	64880broyi@gmail.com	1928	1981-09-12

Download CSV
18 rows selected. Table dropped. Table dropped. Table dropped.