

# A brief MySQL tutorial

CSE 134A: Web Service Design and  
Programming

Fall 2001

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# Creating and Deleting Databases

1) Creating a database

```
mysql> CREATE database 134a;
```

```
Query OK, 1 row affected (0.00 sec)
```

2) Deleting a database

```
mysql> DROP database 134a;
```

```
Query OK, 0 rows affected (0.00 sec)
```

## Creating a Table

3) After we have created the database we use the USE statement to change the current database;

```
mysql> USE 134a;
```

Database changed

4) Creating a table in the database is achieved with the CREATE table statement

```
mysql> CREATE TABLE president (  
    ->     last_name varchar(15) not null,  
    ->     first_name varchar(15) not null,  
    ->     state varchar(2) not null,  
    ->     city varchar(20) not null,  
    ->     birth date not null default '0000-00-00',  
    ->     death date null  
    -> );
```

Query OK, 0 rows affected (0.00 sec)

# Examining the Results

5) To see what tables are present in the database use the SHOW tables:

```
mysql> SHOW tables;
```

```
+-----+
| Tables_in_134a |
+-----+
| president      |
+-----+
1 row in set (0.00 sec)
```

6) The command DESCRIBE can be used to view the structure of a table

```
mysql> DESCRIBE president;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| Field      | Type      | Null | Key | Default      | Extra | Privileges |
+-----+-----+-----+-----+-----+-----+-----+
| last_name  | varchar(15) |      |     |               |       | select,insert,update,references |
| first_name | varchar(15) |      |     |               |       | select,insert,update,references |
| state      | char(2)     |      |     |               |       | select,insert,update,references |
| city       | varchar(20) |      |     |               |       | select,insert,update,references |
| birth      | date        |      |     | 0000-00-00   |       | select,insert,update,references |
| death      | date        | YES  |     | NULL         |       | select,insert,update,references |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

# Inserting / Retrieving Data into / from Tables

7) To insert new rows into an existing table use the INSERT command:

```
mysql> INSERT INTO president values ('Washington',  
                                     'George',  
                                     'VA',  
                                     'Westmoreland County',  
                                     '17320212',  
                                     '17991214');
```

Query OK, 1 row affected (0.00 sec)

8) With the SELECT command we can retrieve previously inserted rows:

```
mysql> SELECT * FROM president;
```

last_name	first_name	state	city	birth	death
Washington	George	VA	Westmoreland County	1732-02-12	1799-12-14

1 row in set (0.00 sec)

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