**Laboratory Report Cover Sheet   
DeVry University  
College of Engineering and Information Sciences**

**Course Number: DBM438**

**Professor:**

**Laboratory Number:** 4

**Laboratory Title:** Data Storage and Basic Table Management

**Submittal Date:** 3/28/2016

***Objectives:***

In week #4 lab we will be looking at basic table managements and different storage issues. The lab wants us to create two tables in the devrydbm438 database and examine the tables. We will also create a temporary file and also make changes to the tables.

***Lab Results from MySQL Server—As per your lab instructions, you will need to copy the contents of your lab output file in your VM into this document here before submitting this lab report to the Dropbox.***

mysql> show variables like '%innodb\_data%';

+-----------------------+------------------------+

| Variable\_name | Value |

+-----------------------+------------------------+

| innodb\_data\_file\_path | ibdata1:12M:autoextend |

| innodb\_data\_home\_dir | |

+-----------------------+------------------------+

2 rows in set (0.00 sec)

mysql> #4.B

mysql> show variables like '%innodb\_log%';

+-----------------------------+----------+

| Variable\_name | Value |

+-----------------------------+----------+

| innodb\_log\_buffer\_size | 4194304 |

| innodb\_log\_compressed\_pages | ON |

| innodb\_log\_file\_size | 50331648 |

| innodb\_log\_files\_in\_group | 2 |

| innodb\_log\_group\_home\_dir | .\ |

+-----------------------------+----------+

5 rows in set (0.00 sec)

mysql> #4.C

mysql> show variables '%myisam%';

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 ''%myisam%'' at line 1

mysql> show variables like '%myisam%';

+---------------------------+----------------------+

| Variable\_name | Value |

+---------------------------+----------------------+

| myisam\_data\_pointer\_size | 6 |

| myisam\_max\_sort\_file\_size | 107374182400 |

| myisam\_mmap\_size | 18446744073709551615 |

| myisam\_recover\_options | OFF |

| myisam\_repair\_threads | 1 |

| myisam\_sort\_buffer\_size | 104857600 |

| myisam\_stats\_method | nulls\_unequal |

| myisam\_use\_mmap | OFF |

+---------------------------+----------------------+

8 rows in set (0.00 sec)

mysql> #5.A

mysql> SHOW DATABASES;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| baseball |

| devrydbm438 |

| devrystudent |

| kevins\_company |

| mysql |

| performance\_schema |

| sakila |

| test |

| world |

+--------------------+

10 rows in set (0.00 sec)

mysql> use devrydbm438;

Database changed

mysql> DEPTNO INT(2),

-> DNAME VARCHAR(14),

-> LOC CHAR(13),

-> PRIMARY KEY (DEPTNO)

-> )

-> ENGINE=MYISAM;

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 'DEPTNO INT(2),

DNAME VARCHAR(14),

LOC CHAR(13),

PRIMARY KEY (DEPTNO)

)

ENGINE=MY' at line 1

mysql> CREATE TABLE S\_DEPT

-> (

-> DEPTNO INT(2),

-> DNAME VARCHAR(14),

-> LOC CHAR(13),

-> PRIMARY KEY (DEPTNO)

-> )

-> ENGINE=MYISAM;

Query OK, 0 rows affected (0.08 sec)

mysql> CREATE TABLE S\_EMP

-> (

-> EMPNO INT(4) NOT NULL,

-> ENAME VARCHAR(10),

-> JOB VARCHAR(9),

-> MGR INT(4),

-> HIREDATE DATE,

-> SAL DECIMAL(7.2),

-> COMM DECIMAL(7.2),

->

-> DEPTNO INT(2) NOT NULL,

-> PRIMARY KEY (EMPNO),

-> FOREIGN KEY (DEPTNO) REFERENCES S\_DEPT (DEPTNO),

-> FOREIGN KEY (MGR) REFERENCES S\_EMP (EMPNO)

-> )

-> ENGINE=MYISAM;

Query OK, 0 rows affected (0.05 sec)

mysql> #5.b

mysql> SHOW TABLES

-> SHOW TABLES;

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 'SHOW TABLES' at line 2

mysql> SHOW TABLES;

+-----------------------+

| Tables\_in\_devrydbm438 |

+-----------------------+

| s\_dept |

| s\_emp |

+-----------------------+

2 rows in set (0.00 sec)

mysql> #5.C

mysql> Select table\_name, column\_name, data\_type, column\_key from

-> Information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> Select table\_name, column\_name, data\_type, column\_key from

-> information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> select table\_name, column\_name, data\_type, column\_key from

-> information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> USE INFORMATION\_SCHEMA;

Database changed

mysql> SHOW TABLES;

+---------------------------------------+

| Tables\_in\_information\_schema |

+---------------------------------------+

| CHARACTER\_SETS |

| COLLATIONS |

| COLLATION\_CHARACTER\_SET\_APPLICABILITY |

| COLUMNS |

| COLUMN\_PRIVILEGES |

| ENGINES |

| EVENTS |

| FILES |

| GLOBAL\_STATUS |

| GLOBAL\_VARIABLES |

| KEY\_COLUMN\_USAGE |

| OPTIMIZER\_TRACE |

| PARAMETERS |

| PARTITIONS |

| PLUGINS |

| PROCESSLIST |

| PROFILING |

| REFERENTIAL\_CONSTRAINTS |

| ROUTINES |

| SCHEMATA |

| SCHEMA\_PRIVILEGES |

| SESSION\_STATUS |

| SESSION\_VARIABLES |

| STATISTICS |

| TABLES |

| TABLESPACES |

| TABLE\_CONSTRAINTS |

| TABLE\_PRIVILEGES |

| TRIGGERS |

| USER\_PRIVILEGES |

| VIEWS |

| INNODB\_LOCKS |

| INNODB\_TRX |

| INNODB\_SYS\_DATAFILES |

| INNODB\_LOCK\_WAITS |

| INNODB\_SYS\_TABLESTATS |

| INNODB\_CMP |

| INNODB\_METRICS |

| INNODB\_CMP\_RESET |

| INNODB\_CMP\_PER\_INDEX |

| INNODB\_CMPMEM\_RESET |

| INNODB\_FT\_DELETED |

| INNODB\_BUFFER\_PAGE\_LRU |

| INNODB\_SYS\_FOREIGN |

| INNODB\_SYS\_COLUMNS |

| INNODB\_SYS\_INDEXES |

| INNODB\_FT\_DEFAULT\_STOPWORD |

| INNODB\_SYS\_FIELDS |

| INNODB\_CMP\_PER\_INDEX\_RESET |

| INNODB\_BUFFER\_PAGE |

| INNODB\_CMPMEM |

| INNODB\_FT\_INDEX\_TABLE |

| INNODB\_FT\_BEING\_DELETED |

| INNODB\_SYS\_TABLESPACES |

| INNODB\_FT\_INDEX\_CACHE |

| INNODB\_SYS\_FOREIGN\_COLS |

| INNODB\_SYS\_TABLES |

| INNODB\_BUFFER\_POOL\_STATS |

| INNODB\_FT\_CONFIG |

+---------------------------------------+

59 rows in set (0.00 sec)

mysql> DESC COLUMNS;

+--------------------------+---------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------------------+---------------------+------+-----+---------+-------+

| TABLE\_CATALOG | varchar(512) | NO | | | |

| TABLE\_SCHEMA | varchar(64) | NO | | | |

| TABLE\_NAME | varchar(64) | NO | | | |

| COLUMN\_NAME | varchar(64) | NO | | | |

| ORDINAL\_POSITION | bigint(21) unsigned | NO | | 0 | |

| COLUMN\_DEFAULT | longtext | YES | | NULL | |

| IS\_NULLABLE | varchar(3) | NO | | | |

| DATA\_TYPE | varchar(64) | NO | | | |

| CHARACTER\_MAXIMUM\_LENGTH | bigint(21) unsigned | YES | | NULL | |

| CHARACTER\_OCTET\_LENGTH | bigint(21) unsigned | YES | | NULL | |

| NUMERIC\_PRECISION | bigint(21) unsigned | YES | | NULL | |

| NUMERIC\_SCALE | bigint(21) unsigned | YES | | NULL | |

| DATETIME\_PRECISION | bigint(21) unsigned | YES | | NULL | |

| CHARACTER\_SET\_NAME | varchar(32) | YES | | NULL | |

| COLLATION\_NAME | varchar(32) | YES | | NULL | |

| COLUMN\_TYPE | longtext | NO | | NULL | |

| COLUMN\_KEY | varchar(3) | NO | | | |

| EXTRA | varchar(30) | NO | | | |

| PRIVILEGES | varchar(80) | NO | | | |

| COLUMN\_COMMENT | varchar(1024) | NO | | | |

+--------------------------+---------------------+------+-----+---------+-------+

20 rows in set (0.02 sec)

mysql> select table\_name, column\_name, data\_type, column\_key from

-> information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> select table\_name, column\_name, data\_type, column\_key from

-> information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> select table\_name, column\_name, data\_type, column\_key from

-> information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> select table\_name, column\_name, data\_type, column\_key from

-> information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 2

mysql> select table\_name, column\_name, data\_type, column\_key from information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 1

mysql> select table\_name, column\_name, data\_type, column\_key from information\_schema.columns where table\_schema = ?devrydbm438?;

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 '?devrydbm438?' at line 1

mysql> #5.D

mysql> select table\_name, engine, data\_length, max\_data\_length, auto\_increment from

-> information\_schema.tables where table\_name in (?s\_dept?,?s\_emp?);

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 '?s\_dept?,?s\_emp?)' at line 2

mysql> select table\_name, engine, data\_length, max\_data\_length, auto\_increment from

-> information\_schema.tables where table\_name in (?s\_dept?,?s\_emp?);

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 '?s\_dept?,?s\_emp?)' at line 2

mysql> #6.A

mysql> SOURCE d:\dbm438\dbm438\_load\_dept.sql

ERROR:

Failed to open file 'd:\dbm438\dbm438\_load\_dept.sql', error: 2

mysql> SELECT DATABASES();

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 'DATABASES()' at line 1

mysql> SELECT DATABASE();

+--------------------+

| DATABASE() |

+--------------------+

| information\_schema |

+--------------------+

1 row in set (0.00 sec)

mysql> #6.A

mysql> USE devrydbm438;

Database changed

mysql> SOURCE D:\DBM438\DBM438\_load\_dept.sql

Query OK, 1 row affected (0.02 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

Query OK, 1 row affected (0.00 sec)

mysql> #6.B

mysql> create temporary table g\_dept AS select \* from s\_dept;

Query OK, 4 rows affected (0.22 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> SELECT \* from g\_dept;

+--------+------------+----------+

| DEPTNO | DNAME | LOC |

+--------+------------+----------+

| 10 | ACCOUNTING | NEW YORK |

| 20 | RESEARCH | DALLAS |

| 30 | SALES | CHICAGO |

| 40 | OPERATIONS | BOSTON |

+--------+------------+----------+

4 rows in set (0.00 sec)

mysql> #6.C

mysql> #6.C

mysql> select table\_name, column\_name, data\_type from information\_schema.columns

-> where table\_name = ?g\_dept?;

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 '?g\_dept?' at line 2

mysql> #7.A

mysql> alter table s\_dept add location\_pic blob;

ERROR 1046 (3D000): No database selected

mysql> use database devrydbm438;

ERROR 1049 (42000): Unknown database 'database'

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| baseball |

| devrydbm438 |

| devrystudent |

| kevins\_company |

| mysql |

| performance\_schema |

| sakila |

| test |

| world |

+--------------------+

10 rows in set (0.00 sec)

mysql> use devrydbm438;

Database changed

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| information\_schema |

| baseball |

| devrydbm438 |

| devrystudent |

| kevins\_company |

| mysql |

| performance\_schema |

| sakila |

| test |

| world |

+--------------------+

10 rows in set (0.00 sec)

mysql> use devrydbm438;

Database changed

mysql> alter table s\_dept add location\_pic blob;

Query OK, 4 rows affected (0.06 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> #7.B

mysql> alter table s\_dept change loc LOCATION char(13);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> #7.C

mysql> alter table s\_dept LOCATION LOCATION VARCHAR(30);

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 'LOCATION LOCATION VARCHAR(30)' at line 1

mysql> alter table s\_dept LOCATION LOCATION varchar(30);

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 'LOCATION LOCATION varchar(30)' at line 1

mysql> alter table s\_dept LOCATION varchar(30);

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 'LOCATION varchar(30)' at line 1

mysql> alter table s\_dept change loc LOCATION char(13);

ERROR 1054 (42S22): Unknown column 'loc' in 's\_dept'

mysql> alter table s\_dept change loc LOCATION char(13);

ERROR 1054 (42S22): Unknown column 'loc' in 's\_dept'

mysql> use devrydbm438;

Database changed

mysql> alter table s\_dept change loc LOCATION char(13);

ERROR 1054 (42S22): Unknown column 'loc' in 's\_dept'

mysql> #4.C

mysql> show variables like'%myisam%';

+---------------------------+----------------------+

| Variable\_name | Value |

+---------------------------+----------------------+

| myisam\_data\_pointer\_size | 6 |

| myisam\_max\_sort\_file\_size | 107374182400 |

| myisam\_mmap\_size | 18446744073709551615 |

| myisam\_recover\_options | OFF |

| myisam\_repair\_threads | 1 |

| myisam\_sort\_buffer\_size | 104857600 |

| myisam\_stats\_method | nulls\_unequal |

| myisam\_use\_mmap | OFF |

+---------------------------+----------------------+

8 rows in set (0.02 sec)

mysql> use devrydbm438;

Database changed

mysql> #5.A

mysql> use devrydbm438;

Database changed

mysql> CREATE TABLE S\_DEPT

-> (

-> DEPTNO INT(2),

-> DNAME VARCHAR(14),

-> LOC CHAR(13),

-> PRIMARY KEY (DEPTNO)

-> )

-> ENGINE=MYISAM;

ERROR 1050 (42S01): Table 's\_dept' already exists

mysql> USE TABLE S\_DEPT

ERROR 1049 (42000): Unknown database 'table'

mysql> (

-> DEPTNO INT(2),

-> DNAME VARCHAR(14),

-> LOC CHAR(13),

-> PRIMARY KEY (DEPTNO)

-> )

-> ENGINE=MYISAM;

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 'DEPTNO INT(2),

DNAME VARCHAR(14),

LOC CHAR(13),

PRIMARY KEY (DEPTNO)

)

ENGINE=M' at line 2

mysql> SHOW TABLES

-> SHOW TABLES;

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 'SHOW TABLES' at line 2

mysql> SHOW TABLES;

+-----------------------+

| Tables\_in\_devrydbm438 |

+-----------------------+

| s\_dept |

| s\_emp |

+-----------------------+

2 rows in set (0.02 sec)

mysql> #5.C

mysql> USE INFORMATION\_SCHEMA;

Database changed

mysql> SHOW TABLES;

+---------------------------------------+

| Tables\_in\_information\_schema |

+---------------------------------------+

| CHARACTER\_SETS |

| COLLATIONS |

| COLLATION\_CHARACTER\_SET\_APPLICABILITY |

| COLUMNS |

| COLUMN\_PRIVILEGES |

| ENGINES |

| EVENTS |

| FILES |

| GLOBAL\_STATUS |

| GLOBAL\_VARIABLES |

| KEY\_COLUMN\_USAGE |

| OPTIMIZER\_TRACE |

| PARAMETERS |

| PARTITIONS |

| PLUGINS |

| PROCESSLIST |

| PROFILING |

| REFERENTIAL\_CONSTRAINTS |

| ROUTINES |

| SCHEMATA |

| SCHEMA\_PRIVILEGES |

| SESSION\_STATUS |

| SESSION\_VARIABLES |

| STATISTICS |

| TABLES |

| TABLESPACES |

| TABLE\_CONSTRAINTS |

| TABLE\_PRIVILEGES |

| TRIGGERS |

| USER\_PRIVILEGES |

| VIEWS |

| INNODB\_LOCKS |

| INNODB\_TRX |

| INNODB\_SYS\_DATAFILES |

| INNODB\_LOCK\_WAITS |

| INNODB\_SYS\_TABLESTATS |

| INNODB\_CMP |

| INNODB\_METRICS |

| INNODB\_CMP\_RESET |

| INNODB\_CMP\_PER\_INDEX |

| INNODB\_CMPMEM\_RESET |

| INNODB\_FT\_DELETED |

| INNODB\_BUFFER\_PAGE\_LRU |

| INNODB\_SYS\_FOREIGN |

| INNODB\_SYS\_COLUMNS |

| INNODB\_SYS\_INDEXES |

| INNODB\_FT\_DEFAULT\_STOPWORD |

| INNODB\_SYS\_FIELDS |

| INNODB\_CMP\_PER\_INDEX\_RESET |

| INNODB\_BUFFER\_PAGE |

| INNODB\_CMPMEM |

| INNODB\_FT\_INDEX\_TABLE |

| INNODB\_FT\_BEING\_DELETED |

| INNODB\_SYS\_TABLESPACES |

| INNODB\_FT\_INDEX\_CACHE |

| INNODB\_SYS\_FOREIGN\_COLS |

| INNODB\_SYS\_TABLES |

| INNODB\_BUFFER\_POOL\_STATS |

| INNODB\_FT\_CONFIG |

+---------------------------------------+

59 rows in set (0.00 sec)

mysql> DESC COLUMNS;

+--------------------------+---------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------------------+---------------------+------+-----+---------+-------+

| TABLE\_CATALOG | varchar(512) | NO | | | |

| TABLE\_SCHEMA | varchar(64) | NO | | | |

| TABLE\_NAME | varchar(64) | NO | | | |

| COLUMN\_NAME | varchar(64) | NO | | | |

| ORDINAL\_POSITION | bigint(21) unsigned | NO | | 0 | |

| COLUMN\_DEFAULT | longtext | YES | | NULL | |

| IS\_NULLABLE | varchar(3) | NO | | | |

| DATA\_TYPE | varchar(64) | NO | | | |

| CHARACTER\_MAXIMUM\_LENGTH | bigint(21) unsigned | YES | | NULL | |

| CHARACTER\_OCTET\_LENGTH | bigint(21) unsigned | YES | | NULL | |

| NUMERIC\_PRECISION | bigint(21) unsigned | YES | | NULL | |

| NUMERIC\_SCALE | bigint(21) unsigned | YES | | NULL | |

| DATETIME\_PRECISION | bigint(21) unsigned | YES | | NULL | |

| CHARACTER\_SET\_NAME | varchar(32) | YES | | NULL | |

| COLLATION\_NAME | varchar(32) | YES | | NULL | |

| COLUMN\_TYPE | longtext | NO | | NULL | |

| COLUMN\_KEY | varchar(3) | NO | | | |

| EXTRA | varchar(30) | NO | | | |

| PRIVILEGES | varchar(80) | NO | | | |

| COLUMN\_COMMENT | varchar(1024) | NO | | | |

+--------------------------+---------------------+------+-----+---------+-------+

20 rows in set (0.01 sec)

mysql> select table\_name, column\_name, data\_type, column\_key from information\_schema.columns where table\_schema = 'devrydbm438';

+------------+--------------+-----------+------------+

| table\_name | column\_name | data\_type | column\_key |

+------------+--------------+-----------+------------+

| s\_dept | DEPTNO | int | PRI |

| s\_dept | DNAME | varchar | |

| s\_dept | LOCATION | char | |

| s\_dept | location\_pic | blob | |

| s\_emp | EMPNO | int | PRI |

| s\_emp | ENAME | varchar | |

| s\_emp | JOB | varchar | |

| s\_emp | MGR | int | MUL |

| s\_emp | HIREDATE | date | |

| s\_emp | SAL | decimal | |

| s\_emp | COMM | decimal | |

| s\_emp | DEPTNO | int | MUL |

+------------+--------------+-----------+------------+

12 rows in set (0.04 sec)

mysql> select table\_name, column\_name, data\_type, column\_key from information\_schema.columns where table\_schema = 'devrydbm438';

+------------+--------------+-----------+------------+

| table\_name | column\_name | data\_type | column\_key |

+------------+--------------+-----------+------------+

| s\_dept | DEPTNO | int | PRI |

| s\_dept | DNAME | varchar | |

| s\_dept | LOCATION | char | |

| s\_dept | location\_pic | blob | |

| s\_emp | EMPNO | int | PRI |

| s\_emp | ENAME | varchar | |

| s\_emp | JOB | varchar | |

| s\_emp | MGR | int | MUL |

| s\_emp | HIREDATE | date | |

| s\_emp | SAL | decimal | |

| s\_emp | COMM | decimal | |

| s\_emp | DEPTNO | int | MUL |

+------------+--------------+-----------+------------+

12 rows in set (0.00 sec)

mysql> #6.A

mysql> SELECT DATABASE();

+--------------------+

| DATABASE() |

+--------------------+

| information\_schema |

+--------------------+

1 row in set (0.00 sec)

mysql> USE DEVRYDBM438;

Database changed

mysql> SOURCE D:\DBM438\DBM438\_LOAD\_DEPT.SQL

ERROR 1136 (21S01): Column count doesn't match value count at row 1

ERROR 1136 (21S01): Column count doesn't match value count at row 1

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mysql> SOURCE D:\DBM438\DBM438\_load\_dept.sql

ERROR 1136 (21S01): Column count doesn't match value count at row 1

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ERROR 1136 (21S01): Column count doesn't match value count at row 1

ERROR 1136 (21S01): Column count doesn't match value count at row 1

mysql> #6.B

mysql> CREATE TEMPORARY TABLE G\_DEPT AS SELECT \* FROM S\_DEPT;

Query OK, 4 rows affected (0.14 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> #6.C

mysql> SELECT \* FROM G\_DEPT;

+--------+------------+----------+--------------+

| DEPTNO | DNAME | LOCATION | location\_pic |

+--------+------------+----------+--------------+

| 10 | ACCOUNTING | NEW YORK | NULL |

| 20 | RESEARCH | DALLAS | NULL |

| 30 | SALES | CHICAGO | NULL |

| 40 | OPERATIONS | BOSTON | NULL |

+--------+------------+----------+--------------+

4 rows in set (0.00 sec)

mysql> SELECT TABLE\_NAME, COLUMN\_NAME, DATA\_TYPE FROM INFORMATION\_SCHEMA.COLUMNS WHERE TABLE\_NAME = 'G\_DEPT';

Empty set (0.01 sec)

mysql> #7.A

mysql> ALTER TABLE S\_DEPT ADD LOCATION\_PIC BLOB;

ERROR 1060 (42S21): Duplicate column name 'LOCATION\_PIC'

mysql> alter table s\_dept add location\_pic blob;

ERROR 1060 (42S21): Duplicate column name 'location\_pic'

mysql> show database();

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 'database()' at line 1

mysql> show databases();

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 '()' at line 1

mysql> use devrydbm438;

Database changed

mysql> alter table s\_dept add location\_pic blob;

ERROR 1060 (42S21): Duplicate column name 'location\_pic'

mysql> alter table s\_dept add location\_pic blob;

ERROR 1060 (42S21): Duplicate column name 'location\_pic'

mysql> sorry command was already created up top ^

-> ;

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 'sorry command was already created up top ^' at line 1

mysql> #7.B done already up top

mysql> #7.C

mysql> alter table s\_dept change LOCATION LOCATION varchar(30);

Query OK, 4 rows affected (0.05 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> #7.D

mysql> alter table s\_dept add index loc\_idx (LOCATION);

Query OK, 4 rows affected (0.03 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> #7.E

mysql> select table\_name, column\_name, data\_type from information\_schema.columns where table\_name = ?s\_dept?;

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 '?s\_dept?' at line 1

mysql> select table\_name, column\_name, data\_type from information\_schema.columns

-> where table\_name =?s\_dept?;

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 '?s\_dept?' at line 2

mysql> select table\_name, column\_name, data\_type from information\_schema.columns where table\_name =?s\_dept?;

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 '?s\_dept?' at line 1

mysql> select table\_name, column\_name, data\_type, column\_key from information\_schema.columns where table\_schema = 's\_dept';

Empty set (0.02 sec)

mysql> #7.F

mysql> show index from s\_dept;

+--------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| Table | Non\_unique | Key\_name | Seq\_in\_index | Column\_name | Collation | Cardinality | Sub\_part | Packed | Null | Index\_type | Comment | Index\_comment |

+--------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

| s\_dept | 0 | PRIMARY | 1 | DEPTNO | A | 4 | NULL | NULL | | BTREE | | |

| s\_dept | 1 | loc\_idx | 1 | LOCATION | A | NULL | NULL | NULL | YES | BTREE | | |

+--------+------------+----------+--------------+-------------+-----------+-------------+----------+--------+------+------------+---------+---------------+

2 rows in set (0.00 sec)

mysql> notee

***Conclusions:***

The number of log files in the log group innoDB writes the files in a circular fashion. The location of the files is specified by innodb\_log\_group\_home\_dir. The directory path to the InnoDB redo log files number is specfified by innodb\_log\_files\_in\_group.

The log tables can be altered using the MyISAM storage engine, but you cannot use the alter table to alter a table that is in use. It must be disabled first. No other engines other than CSV or MyISAM are allowed for the log tables.

SELECT \* FROM G\_DEPT;

+--------+------------+----------+--------------+

| DEPTNO | DNAME | LOCATION | location\_pic |

+--------+------------+----------+--------------+

| 10 | ACCOUNTING | NEW YORK | NULL |

| 20 | RESEARCH | DALLAS | NULL |

| 30 | SALES | CHICAGO | NULL |

| 40 | OPERATIONS | BOSTON | NULL |

+--------+------------+----------+--------------+

4 rows in set (0.00 sec)

mysql> SELECT TABLE\_NAME, COLUMN\_NAME, DATA\_TYPE FROM INFORMATION\_SCHEMA.COLUMNS WHERE TABLE\_NAME = 'G\_DEPT';

Empty set (0.01 sec)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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|  | Name |  | Program |  | Signature |