MYSQL INTRODUCTION

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MYSQL

```
    Connect
```

- mysql [-h host] [-u user] [-p[password]] [dbname]

>mysql -h mariadb -u wang -p

Enter password: *******

Welcome to the MySQL monitor. Commands end with ; or \gray{g} .

Your MySQL connection id is 14 to server version: 3.23.34a

Type 'help;' or '\h' for help. Type '\c' to clear the buffer

mysql>use wang

Mysql>database changed

MYSQL

- Data definition
 - SHOW DATABASES;
 - USE dbname;
 - CREATE TABLE table_name (field_name type,.., constraints,..);
 - SHOW TABLES;
 - SHOW COLUMNS FROM table_name;
 - DROP TABLE table_name;

MYSQL

- Data manipulation
 - INSERT INTO table_name [(field_name,..)]
 VALUES (value,..);
 - DELETE FROM table_nameWHERE condition;
 - UPDATE table_nameSET field_name=value,...[WHERE condition];

MYSQL

- Data manipulation(2)
 - SELECT field_name [as field_name],..FROM table_name[WHERE condition][ORDER BY field_name];
 - =, <, >, AND, OR, NOT (field_name LIKE "_%....")

MYSQL

- ALTER TABLE
 - ALTERTABLE table_name

 [RENAME new_table_name]/

 [ADD field_name type]/

 [DROP field_name]/

 [CHANGE name new_name new_type];

```
mysql> CREATE TABLE Students(
    -> sid VARCHAR(9) NOT NULL,
    -> sname VARCHAR(50),
    -> snum INT,
    -> PRIMARY KEY(sid));
Query OK, 0 rows affected (0.01 sec)

•Data Type :
    •CHAR, VARCHAR, INT [Unsigned], FLOAT
    •DATE, TEXT/BLOB, SET, ENUM
•Constraints :
    •PRIMARY/FOREIGN KEY, NOT NULL
```

```
mysql> INSERT INTO Students
  -> VALUES ('4122', 'John Q', 2001);
Query OK, 1 row affected (0.00 sec)
mysql> SELECT * FROM Students;
+----+
sid sname
                   snum
+----+
| Ben Patterson | 2000 |
6281
| 8762 | Peter Dawson | 2000 |
+----+
4 rows in set (0.00 sec)
mysql> DELETE FROM Students
  -> WHERE sid='4122';
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM Students ORDER BY sname;
+----+
sid
     sname
                 snum
+----+
| 8762 | Peter Dawson | 2000 |
+----+
3 rows in set (0.02 sec)
mysql> SELECT sname FROM Students WHERE
  ->snum=2000;
+----+
| Ben Patterson |
Peter Dawson
+----+
2 row in set (0.00 sec)
```