

USE dance;

=> Selected dance as the current DB

SHOW DATABASES;

=> ✓ DB's

SQL Keyword SQL Keyword Name of Table SQL Keyword

```
mysql> INSERT INTO cartoon VALUES
-> "Mickey","Mouse","123 Fantasy Way","Anaheim"
-> ,73);
Query OK, 1 row affected (0.01 sec)
```



```
mysql> SELECT FirstName, LastName FROM cartoon;
+-----+-----+
| FirstName | LastName |
+-----+-----+
| Mickey ✓ | Mouse ✓ |
+-----+-----+
1 row in set (0.00 sec)
```

Insert Multiple Rows

```
mysql> INSERT INTO cartoon VALUES
-> ("Bat", "Man", "321 Cavern Ave", "Gotham", 54),
-> ("Wonder", "Woman", "987 Truth Way", "Paradise"
-> , 39),
-> ("Donald", "Duck", "555 Quack Street", "Mallard"
-> , 65); ↓ delimiter
```

Query OK, 3 rows affected (0.01 sec)

Records: 3 Duplicates: 0 Warnings: 0

all the columns \equiv

```
mysql> SELECT * FROM cartoon;
```

FirstName	LastName	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65

4 rows in set (0.00 sec)

Q1 Create this table

SALES			
purchase_number	date_of_purchase	customer_id	item_code
1	03/09/2016	1	A_1
2	02/12/2016	2	C_1
3	15/04/2017	3	D_1
4	24/05/2017	1	B_2
5	25/05/2017	4	B_2

SALES INT

DATE VARCHAR(3)

- ① DDL → Create ---
- ② DML → Insert ? into ---
- ③ DQL → Select * ---

DATE = "2016 - 09 - 03"

```
mysql> CREATE TABLE sales(purchase_number INT,date_of_purchase DATE,customer_id INT,item_code VARCHAR(3))
;
Query OK, 0 rows affected (0.08 sec)

mysql> SHOW TABLES;
+-----+
| Tables_in_example_2 |
+-----+
| cartoon
| cricket
| dance
| music
| sales
| student
+-----+
6 rows in set (0.00 sec)

mysql> DESC sales;
+-----+-----+-----+-----+-----+
| Field      | Type     | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| purchase_number | int      | YES  |     | NULL    |       |
| date_of_purchase | date    | YES  |     | NULL    |       |
| customer_id   | int      | YES  |     | NULL    |       |
```

```
mysql> INSERT INTO sales VALUES
->      (1,'2016-09-03',1,'A_1'),
->      (2,'2016-12-02',2,'C_1'),
->      (3,'2017-04-15',3,'D_1'),
->      (4,'2017-05-24',1,'B_2'),
->      (5,'2017-05-25',4,'B_2');
```

Query OK, 5 rows affected (0.01 sec)

Records: 5 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM sales;
```

purchase_number	date_of_purchase	customer_id	item_code
1	2016-09-03	1	A_1
2	2016-12-02	2	C_1
3	2017-04-15	3	D_1
4	2017-05-24	1	B_2
5	2017-05-25	4	B_2

5 rows in set (0.00 sec)

<u>student id</u>	name	major
1	Jack	Biology
2	Kate	Sociology
3	Claire	English
4	Jack	Biology
5	Mike	Comp. Sci

④ STUDENT

- ① DDL → Create
- ② DML → Insert

PRIMARY KEY

Uniquely identifies a Row in a table

① Consistency of Data

Avoid Duplicacy

② DQL works bcoz of this.

PRI. KEY

* Multiple Col's as PRI. KEY

While inserting Data

① Can we have Primary Key Column as

NULL

⇒ No, SQL enforces this

② Can I insert 2 rows with
same Primary Key column value?

⇒ No, SQL enforces this.

```
mysql> CREATE TABLE student2(
    -> student_id INT PRIMARY KEY,
    -> name VARCHAR(10),
    -> major VARCHAR(15)
    -> );
```

```
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> DESC student2;
```

Field	Type	Null	Key	Default	Extra
student_id	int	NO	PRI	NULL	
name	varchar(10)	YES		NULL	
major	varchar(15)	YES		NULL	

```
3 rows in set (0.01 sec)
```

Insert ↗

```
mysql> INSERT INTO student2 VALUES
-> (1,"Jack","Biology"),
-> (2,"Kate","Sociology"),
-> (3,"Claire","English"),
-> (4,"Jack","Biology"),
-> (5,"Mike","Comp. Sci");
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

NULL
Duplicate X

```
mysql> SELECT * FROM student2;
+-----+-----+-----+
| student_id | name   | major  |
+-----+-----+-----+
|      1 | Jack   | Biology |
|      2 | Kate   | Sociology |
|      3 | Claire | English |
|      4 | Jack   | Biology |
|      5 | Mike   | Comp. Sci |
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> INSERT INTO student2 VALUES
-> (NULL,"Jack","Biology");
ERROR 1048 (23000): Column 'student_id' cannot be null
mysql> INSERT INTO student2 VALUES
-> (1,"Mac","Mechatronics");
ERROR 1062 (23000): Duplicate entry '1' for key 'student2.PRIMARY'
```

Date	Name	Balance	Position
28-Apr-96	Upple ✓	53.45	2
14-Aug-97	Crosoft ✓	145.76	1
06-Sep-93	Ladobe ✓	49.03	3

```
CREATE TABLE sensex (Position INT PRIMARY KEY,
Name VARCHAR(10), Balance DECIMAL(5,2),Date DATE);
```

```
INSERT INTO sensex values
(2,"Upple",53.45,"1996-04-28"),
(1,"Crosoft",145.76,"1997-08-14"),
(3,"Ladobe",49.03,"1993-09-06");
```

```
SELECT * FROM sensex;
```