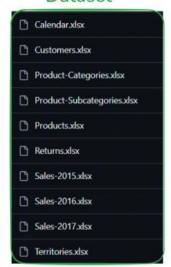
Basic Database Operations - I

https://github.com/KrishnaMentor/CN-02-TTS

- Import datasets into MySQL Workbench
- ☑ Use SELECT statements to explore data
- Understand and apply the DESCRIBE function
- Recognise SQL data types
- ✓ Use the WHERE clause for filtering

Dataset





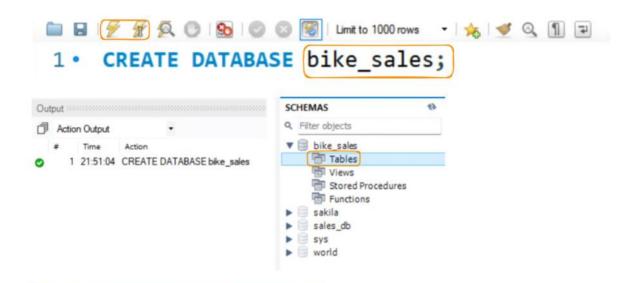
GUI[Graphical User Interface]





Syntax For Creating a Database

CREATE DATABASE (db_name);



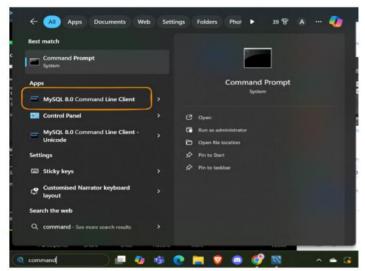
DROP DATABASE bike_sales;

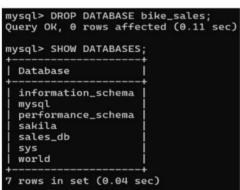
Removes the database.

```
Enter password: *********
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 32
Server version: 8.0.42 MySQL Community Server - GPL

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```

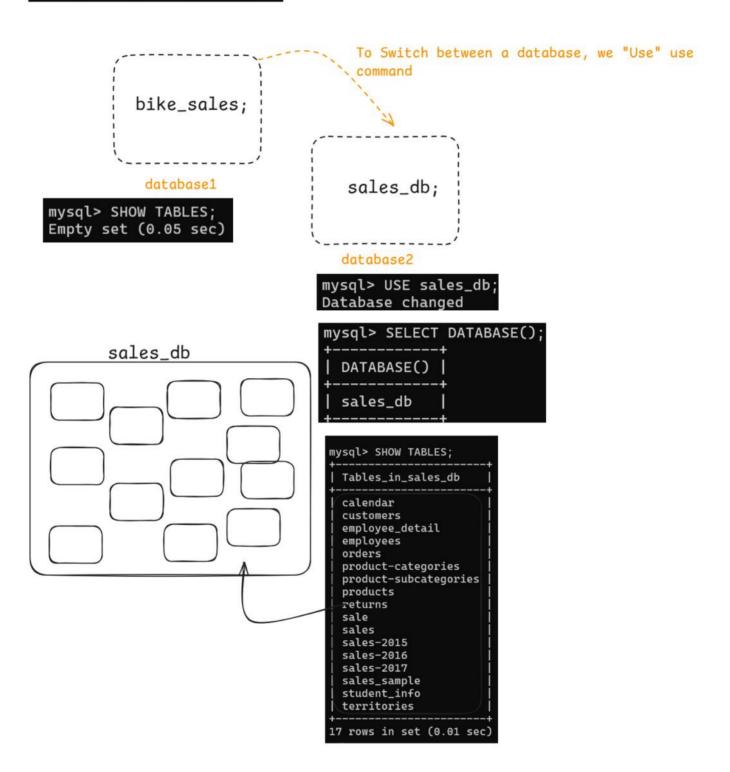




SELECT DATABASE(); - It shows what current database we are using

```
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| NULL |
+-----+
1 row in set (0.00 sec)
```

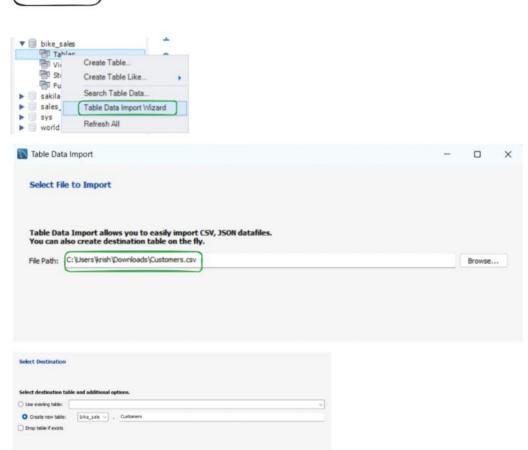
```
mysql> USE bike_sales;
Database changed
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+-----+
| bike_sales |
+-----+
1 row in set (0.00 sec)
```



How we can Import Table in Database.

There is a table which already exist in .csv file, we just have to import it.

GUI ---> Using Table Data Import Wizard.





Use bike_sales;

```
mysql> USE bike_sales;
Database changed
mysql> SELECT DATABASE();
+-----+
| DATABASE() |
+ bike_sales |
+----+
1 row in set (0.00 sec)
```

DESCRIBE (Table_name)

DESC (Table_name)

```
mysql> DESC customers;
 Field
                            | Null | Key | Default | Extra |
                   | Type
 CustomerKey
                    int
                              YES
                                           NULL
 Prefix
                    text
                              YES
                                           NULL
 FirstName
                    text
                              YES
                                           NULL
 LastName
                    text
                              YES
                                           NULL
 BirthDate
                    text
                              YES
                                           NULL
                              YES
 MyUnknownColumn
                    text
                                           NULL
 MaritalStatus
                    text
                              YES
                                           NULL
 Gender
                    text
                              YES
                                           NULL
 EmailAddress
                              YES
                                           NULL
                    text
 AnnualIncome
                    text
                              YES
                                           NULL
 TotalChildren
                              YES
                    int
                                           NULL
 EducationLevel
                    text
                              YES
                                           NULL
 Occupation
                    text
                              YES
                                           NULL
 HomeOwner
                    text
                              YES
                                           NULL
 Phone_number
                              YES
                    bigint
                                           NULL
15 rows in set (0.00 sec)
```

```
SHOW DATABASES;
                                      Field - Column Header
CREATE DATABASE bike sales;
                                      Type - Data Type
                                      NULL - YES [Optional]
-- DROP DATABASE bike sales;
                                            - NO [Mandatory *]
USE bike_sales;
                                      Key - PRI[Primary Key]
SELECT DATABASE();
                                          - UNI [Unique]
                                          - MUL [Foreign Key]
SHOW TABLES;
                                      Default - NULL,
DESC customers;
                                             - But we can set Default as per the column.
                                      Extra - Constraints
                                           - CHECK
```

Let's Read out the table data that we import. [Customers]

8 • SELECT * FROM Customers;

R	esult Grid	Filter Rows			Export: Wrap Cell Content: 🔀 Fetch rows:										
	CustomerKey	Prefix	FirstName	LastName	BirthDate	MyUnknownColumn	MaritalStatus	Gender	EmailAddress	AnnualIncome	TotalChildren	EducationLevel	Occupation	HomeOwner	Phone_number
	11000	MR.	JON	YANG	04/08/1966		М	M	jon24@learnsector.com	\$90,000	2	Bachelors	Professional	Υ	6697921661
	11001	MR.	EUGENE	HUANG	14/05/1965		S	M	eugene 10 @learnsector.com	\$60,000	3	Bachelors	Professional	N	8586376955
	11002	MR.	RUBEN	TORRES	08/12/1965		M	M	ruben35@learnsector.com	\$60,000	3	Bachelors	Professional	Y	6528852745
	11003	MS.	CHRISTY	ZHU	15/02/1968		5	F	christy12@learnsector.com		0	Bachelors	Professional	N	3646568427
	11004	MRS.	ELIZABETH	JOHNSON	08/08/1968		5	F	elizabeth5@learnsector.com	\$80,000	5	Bachelors	Professional	Y	7132265883

- Auto_increment() + 1 value to next person.