

What is **MySQL** ?

- MySQL is the most popular open source relational database management system.
- MySQL used for developing various web based software development.
- Developed by company MySQL AB.

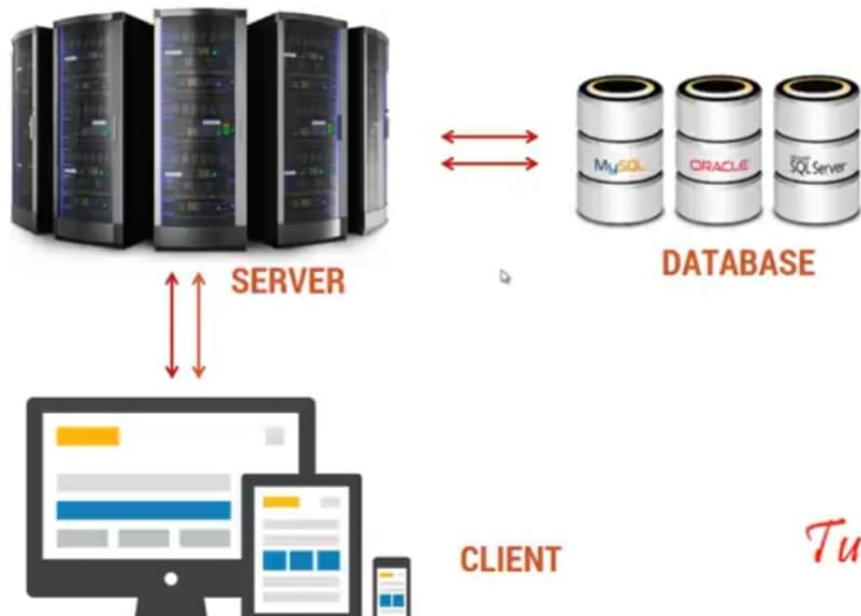


Features of MySQL

- Relational Database Management System (RDBMS)
- Easy to use
- Storing Data is secure.
- Open Source & Free to download
- Compatible on many operating systems



What is **Database** ?



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Database & Tables

MySQL

COLLEGE DATABASE

Tables

APPLICATION
ID
NAME
FATHER
CID
ROLLNO

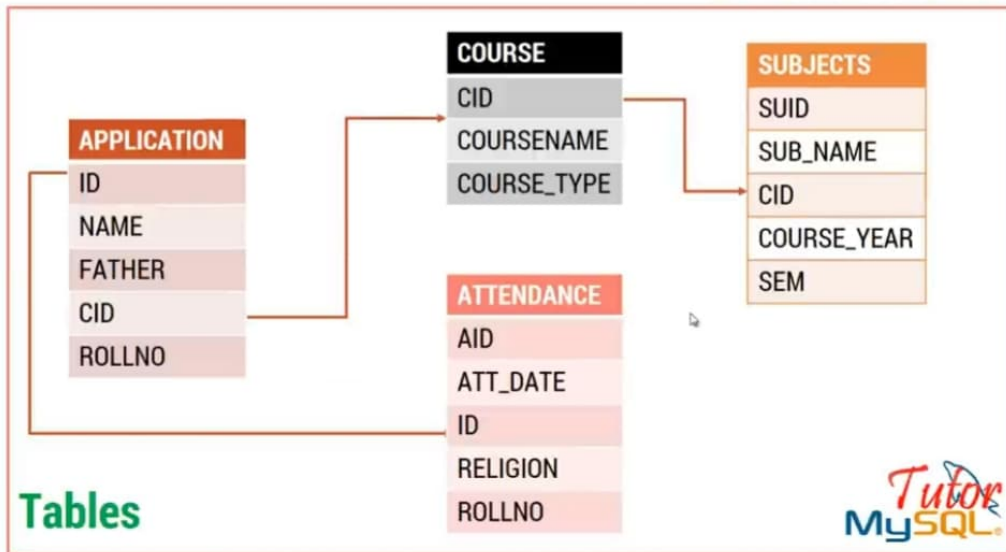
COURSE
CID
COURSENAME
COURSE_TYPE

ATTENDANCE
AID
ATT_DATE
ID
RELIGION
ROLLNO

SUBJECTS
SUID
SUB_NAME
CID
COURSE_YEAR
SEM

Relational Database Management System **RDBMS**

COLLEGE DATABASE



Datatypes of MySQL

Numeric Datatype

Data Type	Description
INT	-2147483648 to 2147483647 0 to 4294967295. 11 digits.
TINYINT	-128 to 127 0 to 255 4 digits.
SMALLINT	-32768 to 32767 0 to 65535 5 digits.
MEDIUMINT	-8388608 to 8388607 0 to 16777215 9 digits.
BIGINT	-9223372036854775808 to 9223372036854775807. 0 to 18446744073709551615 20 digits.
FLOAT(m,d)	default to 10,2 24 places for a float.
DOUBLE(m,d)	default to 16,4, 53 places for double.

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Datatypes of MySQL

DATETIME

DATATYPE	RANGE	EXAMPLE
DATE	'1000-01-01' to '9999-12-31'.	Displayed as 'yyyy-mm-dd'.
DATETIME	'1000-01-01 00:00:00' to '9999-12-31 23:59:59'.	Displayed as 'yyyy-mm-dd hh:mm:ss'.
TIMESTAMP	'1970-01-01 00:00:01' UTC to '2038-01-19 03:14:07' TC.	Displayed as 'YYYY-MM-DD HH:MM:SS'.
TIME	'-838:59:59' to '838:59:59'.	Displayed as 'HH:MM:SS'.
YEAR	2 digits or 4 digits.	Default is 4 digits.

Datatypes of MySQL

STRING TYPE

DATATYPE	RANGE
VARCHAR(size)	Maximum size of 255 characters.
TINYTEXT(size)	Maximum size of 255 characters.
TEXT(size)	Maximum size of 65,535 characters.
MEDIUMTEXT(size)	Maximum size of 16,777,215 characters.
LONGTEXT(size)	Maximum size of 4GB or 4,294,967,295 characters.
BINARY(size)	Maximum size of 255 characters.
VARBINARY(size)	Maximum size of 255 characters.

Datatypes of MySQL

Large Object (LOB)

Data Type	Range
TINYBLOB	Maximum size of 255 bytes.
BLOB(size)	Maximum size of 65,535 bytes.
MEDIUMBLOB	Maximum size of 16,777,215 bytes.
LONGTEXT	Maximum size of 4gb or 4,294,967,295 characters.