

Users and Privileges

```
USER()

CREATE USER 'user'@'localhost';

DROP USER 'user'@'host';

GRANT privileges_names ON object
TO user;

REVOKE privileges ON object FROM
user;

ALTER USER user IDENTIFIED BY
'password';

SET PASSWORD = 'password';

SET PASSWORD FOR
'user'@'localhost' = 'password';
```

Databases

```
CREATE DATABASE database_name;

USE database_name;

DROP DATABASE database_name;

SHOW DATABASES;
```

Data Types

```
TINYINT
SMALLINT
MEDIUMINT
INT
BIGINT
DECIMAL
FLOAT
DOUBLE
CHAR
VARCHAR
BLOB
DATE
TIME
TIMESTAMP
DATETIME
TINYTEXT
TEXT
LONGTEXT
BIT
BOOL
```

Tables

```
SHOW TABLES;

DESCRIBE table_name

CREATE TABLE table_name (
column1 datatype,
column2 datatype,
column3 datatype,
);

DROP TABLE table_name;

ALTER TABLE table_name
ADD column_name datatype;

ALTER TABLE table_name
DROP COLUMN column_name;

ALTER TABLE table_name
MODIFY COLUMN column_name datatype;

SELECT * FROM table_name;

SELECT column1, column2 ...
FROM table_name;

SELECT DISTINCT column1, column2, ...
FROM table_name;

SELECT column1, column2, ...
FROM table_name
WHERE condition;

SELECT column1, column2, ...
FROM table_name
WHERE condition;
ORDER BY column1 ASC/DESC;

SELECT column1, column2, ...
FROM table_name
WHERE condition;
GROUP BY column1

SELECT column1, column2, ...
FROM table_name
WHERE condition;
LIMIT number_of_results;

SELECT column1, column2, ...
FROM table1
INNER JOIN* table2
ON table1.column_name = table2.column_name;

*LEFT JOIN / RIGHT JOIN / FULL JOIN / SELF JOIN
```

Indexes

```
CREATE INDEX index_name
ON table_name (column1, column2, ...);

CREATE UNIQUE INDEX index_name
ON table_name (column1, column2, ...);

ALTER TABLE table_name
DROP INDEX index_name;
```

Views

```
CREATE VIEW view_name AS
SELECT column1, column2, ...
FROM table_name
WHERE condition;

CREATE OR REPLACE VIEW view_name AS
SELECT column1, column2, ...
FROM table_name
WHERE condition;

DROP VIEW view_name;
```

MySQL Functions

Date and Time

```
DATEDIFF NOW
DAY MONTH
DATE_ADD STR_TO_DATE
DATE_SUB SYSDATE
DATE_FORMAT TIMEDIFF
DAYNAME TIMESTAMPDIFF
DAYWEEK WEEK
EXTRACT WEEKDAY
LAST_DAY YEAR
```

String

```
ASCII OCT
BIN OCTET_LENGTH
BIT_LENGTH ORD
CHAR POSITION
CHAR_LENGTH QUOTE
CONCAT REGEXP
CONCAT_WS REGEXP_INSTR
ELT REGEXP_LIKE
EXPORT_SET REGEXP_REPLACE
FIELD REGEXP_SUBSTR
FIND_IN_SET REPEAT
FORMAT REPLACE
FROM_BASE64 REVERSE
HEX RIGHT
INSERT RLIKE
INSTR RPAD
LCASE RTRIM
LEFT SOUNDEX
LENGTH SOUND LIKE
LIKE SPACE
LOAD_FILE STRCMP
LOCATE SUBSTR
LOWER SUBSTRING_INDEX
LPAD TO_BASE64
LTRIM TRIM
MAKE_SET UCASE
MATCH UNHEX
MID UPPER
NOT LIKE WEIGHT_STRING
NOT_REGEXP
```

Math

```
ABS LOG
ACOS LOG2
ASIN LOG10
ATAN MOD
CEIL PI
CONV POW
COS POWER
COT RADIANS
CRC32 RAND
DEGREES ROUND
EXP SIGN
FLOOR SQRT
LN TAN
TRUNCATE
```

Aggregate

```
AVG MIN
BIT_AND STD
BIT_OR STDDEV
BIT_XOR STDDEV_POP
COUNT STDDEV_SAMP
GROUP_CONCAT SUM
JSON_ARRAYAGG VAR_POP
JSON_OBJECTAGG VAR_SAMP
MAX VARIANCE
```

Comparison

```
> INTERVAL
>= IS
< IS_NOT
<> (!=) IS_NOT_NULL
<= IS_NULL
<=> ISNULL
= LIKE
BETWEEN...AND NOT_BETWEEN...AND
COALESCE NOT_IN
GREATEST NOT_LIKE
IN STRCMP
```

Flow Control

```
CASE IFNULL
IF NULLIF
```