

## SQL Cheat Sheet: CREATE TABLE, ALTER, DROP, TRUNCATE

| Command                     | Syntax  | Description   | Example  |
|-----------------------------|---|---|--|
| CREATE TABLE                | MySQL/DB2: CREATE TABLE table_name (col1 datatype <i>optional keyword</i> , col2 datatype <i>optional keyword</i> , col3 datatype <i>optional keyword</i> ,..., coln datatype <i>optional keyword</i> )                             | CREATE TABLE statement is to create the table. Each column in the table is specified with its name, data type and an optional keyword which could be <b>PRIMARY KEY</b> , <b>NOT NULL</b> , etc.,             | MySQL/DB2: CREATE TABLE employee ( employee_id char(2) PRIMARY KEY, first_name varchar(30) NOT NULL, mobile int);                          |
| ALTER TABLE - ADD COLUMN    | MySQL/DB2:<br><br>Option 1. ALTER TABLE table_name ADD column_name_1 datatype....ADD COLUMN column_name_n datatype;<br><br>Option 2. ALTER TABLE table_name ADD COLUMN column_name_1 datatype....ADD COLUMN column_name_n datatype; | ALTER TABLE statement is used to add the columns to a table.  | MySQL/DB2<br><br>Option 1. ALTER TABLE employee ADD income bigint;<br><br>Option 2. ALTER TABLE employee ADD COLUMN income bigint;         |
| ALTER TABLE - ALTER COLUMN  | MySQL: ALTER TABLE table_name MODIFY column_name_1 new_data_type;<br><br>DB2: ALTER TABLE table_name ALTER COLUMN column_name_1 SET DATA TYPE datatype;   | MySQL: ALTER TABLE MODIFY MODIFY clause is used with the ALTER TABLE statement to modify the data type of columns.<br><br>Db2: ALTER TABLE ALTER COLUMN statement is used to modify the data type of columns. | MySQL: ALTER TABLE employee MODIFY mobile CHAR(20);<br><br>DB2: ALTER TABLE employee ALTER COLUMN mobile SET DATA TYPE CHAR(20);           |
| ALTER TABLE - DROP COLUMN   | MySQL/DB2: ALTER TABLE table_name DROP COLUMN column_name_1 ;   | ALTER TABLE DROP COLUMN statement is used to remove columns from a table.   | MySQL/DB2:<br><br>ALTER TABLE employee DROP COLUMN mobile ;  |
| ALTER TABLE - RENAME COLUMN | MySQL: ALTER TABLE table_name CHANGE COLUMN current_column_name new_column_name datatype [optional keywords];<br><br>DB2: ALTER TABLE table_name RENAME COLUMN current_column_name TO new_column_name;                              | MySQL: ALTER TABLE CHANGE COLUMN CHANGE COLUMN clause is used to rename the columns in a table.<br><br>DB2: ALTER TABLE RENAME COLUMN statement is used to rename the columns in a table.                     | MySQL: ALTER TABLE employee CHANGE COLUMN first_name name VARCHAR(255);<br><br>DB2: ALTER TABLE employee RENAME COLUMN first_name TO name; |
| TRUNCATE TABLE              | MySQL: TRUNCATE TABLE table_name;<br><br>DB2: TRUNCATE TABLE table_name IMMEDIATE;  | MySQL: TRUNCATE TABLE statement is used to delete all of the rows in a table.<br><br>Db2: The IMMEDIATE specifies to process the statement immediately and that it cannot be undone.                          | MySQL: TRUNCATE TABLE employee;<br><br>DB2: TRUNCATE TABLE employee IMMEDIATE ;  |
| DROP TABLE                  | MySQL/DB2: DROP TABLE table_name ;  | Use the DROP TABLE statement to delete a table from a database. If you delete a table that contains data, by default the data will be deleted alongside the table.  | MySQL/DB2:<br><br>DROP TABLE employee ;  |

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