

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 PRIMARY KEY , NOT NULL , 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: Option 1. ALTER TABLE table_name ADD column_name_1 datatype....ADD COLUMN column_name_n datatype; 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 Option 1. ALTER TABLE employee ADD income bigint; 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; 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. Db2: ALTER TABLE ALTER COLUMN statement is used to modify the data type of columns. | MySQL: ALTER TABLE employee MODIFY mobile CHAR(20); 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: 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]; 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. 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); DB2: ALTER TABLE employee RENAME COLUMN first_name TO name; |
| TRUNCATE TABLE | MySQL: TRUNCATE TABLE table_name; DB2: TRUNCATE TABLE table_name IMMEDIATE; | MySQL: TRUNCATE TABLE statement is used to delete all of the rows in a table. Db2: The IMMEDIATE specifies to process the statement immediately and that it cannot be undone. | MySQL: TRUNCATE TABLE employee; 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: DROP TABLE employee ; |

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