This chapter gives you the syntax of all the Apache Derby SQL statements.

All the statements start with any of the keywords like SELECT, INSERT, UPDATE, DELETE, ALTER, DROP, CREATE, USE, SHOW and all the statements end with a semicolon (;).

The SQL statements of Apache Derby are case in sensitives including table names.

CREATE Statement

CREATE TABLE table\_name (

column\_name1 column\_data\_type1 constraint (optional),

column\_name2 column\_data\_type2 constraint (optional),

column\_name3 column\_data\_type3 constraint (optional)

);

DROP TABLE

DROP TABLE table\_name;

INSERT Statement

INSERT INTO table\_name VALUES (column\_name1, column\_name2, ...);

SELECT Statement

SELECT column\_name, column\_name, ... FROM table\_name;

UPDATE Statement

UPDATE table\_name

SET column\_name = value, column\_name = value, ...

WHERE conditions;

DELETE Statement

DELETE FROM table\_name WHERE condition;

DESCRIBE Statement

Describe table\_name

SQL TRUNCATE TABLE Statement

TRUNCATE TABLE table\_name;

ALTER Statement – Adding column

ALTER TABLE table\_name ADD COLUMN column\_name column\_type;

ALTER Statement – Adding constraint

ALTER TABLE table\_name ADD CONSTRAINT constraint\_name constraint (column\_name);

ALTER Statement – Dropping column

ALTER TABLE table\_name DROP COLUMN column\_name;

ALTER Statement – Dropping constraint

ALTER TABLE table\_name DROP CONSTRAINT constraint\_name;

WHERE Clause

SELECT \* from table\_name WHERE condition;

or,

DELETE from table\_name WHERE condition;

or,

UPDATE table\_name SET column\_name = value WHERE condition;

GROUP BY Clause

SELECT column1, column2, . . . table\_name GROUP BY column1, column2, . . .;

ORDER BY Clause

SELECT \* FROM table\_name ORDER BY column\_name ASC|DESC.

Having Clause

SELECT column1, column2 . . . from table\_name GROUP BY column having

condition;

Creating Index

CTREATE INDEX index\_name on table\_name (column\_name);

Creating an UNIQUE index

CREATE UNIQUE INDEX index\_name on table\_name (column\_name);

Creating a COMPOSITE index

CREATE INDEX index\_name on table\_name (column\_name1, column\_name2);

Displaying the Indexes

SHOW INDEXES FROM table\_name;

Dropping Indexes

DROP INDEX index\_name;