

## ✿ SQL SELECT STATEMENTS

### **SELECT \* FROM tbl**

Select all rows and columns from table tbl

### **SELECT c1,c2 FROM tbl**

Select column c1, c2 and all rows from table tbl

### **SELECT c1,c2 FROM tbl WHERE conditions ORDER BY c1 ASC, c2 DESC**

Select columns c1, c2 with where conditions and from table tbl order result by column c1 in ascending order and c2 in descending order

### **SELECT DISTINCT c1, c2 FROM tbl**

Select distinct rows by columns c1 and c2 from table tbl.

### **SELECT c1, aggregate(expr) FROM tbl GROUP BY c1**

Select column c1 and use aggregate function on expression expr, group columns by column c1.

### **SELECT c1, aggregate(expr) AS c2 FROM tbl GROUP BY c1 HAVING c2 > v**

Select column c1 and c2 as column alias of the result of aggregate function on expr. Filter group of records with c2 greater than value v

## ✿ SQL UPDATE TABLE

### **INSERT INTO tbl(c1,c2,...) VALUES(v1,v2...)**

Insert data into table tbl

### **INSERT INTO tbl(c1,c2,...) SELECT c1,c2.. FROM tbl2 WHERE conditions**

Insert data from tbl2 into tbl

### **UPDATE t SET c1 = v1, c2 = v2... WHERE conditions**

Update data in table tbl

### **DELETE FROM tbl WHERE conditions**

Delete records from table tbl based on WHERE conditions.

### **TRUNCATE TABLE tbl** Drop table tbl and re-create it, all data is lost

## ✿ SQL TABLE STATEMENTS

### **CREATE TABLE tbl(     c1 datatype(length)     c2 datatype(length)     ...     PRIMARY KEY(c1) )**

Create table tbl with primary key is c1

### **DROP TABLE tbl**

Remove table tbl from database.

### **ALTER TABLE tbl ADD COLUMN c1 datatype(length)**

Add column c1 to table tbl

### **ALTER TABLE tbl DROP COLUMN c1**

Drop column c1 from table tbl

## ✿ SQL JOIN STATEMENTS

### **SELECT \* FROM tbl1 INNER JOIN tbl2 ON join-conditions** Inner join table tbl1 with tbl2 based on join-conditions.

### **SELECT \* FROM tbl1 LEFT JOIN tbl2 ON join-conditions** Left join table tbl1 with tbl2 based on join-conditions.

### **SELECT \* FROM tbl1 RIGHT JOIN tbl2 ON join-conditions** Right join table tbl1 with tbl2 based on join-conditions.

### **SELECT \* FROM tbl1 RIGHT JOIN tbl2 ON join-conditions** Full outer join table tbl1 with tbl2 based on join-conditions.