>> Aggregate functions: QUERYING DATA FROM MULTIPLE TABLES (Structured Query Lan.) COUNT(c) > Number of rows >> Selecting columns CHEET SHEET BY @CHARLSTOWN SUM(c) > Total sum SELECT c1, c2 FROM table > INNER join tables IOIN table2: MAX(c) > Largest value MIN(c) > Smallest value SELECT c1, c2 FROM t1 > Joinning columns YFAR: 1974 AVG(c) > Average value JOIN t2 ON t1.col id = t2.col id; LATEST VERSION (2019): SOL2012 FIRST(c) > First value TOP DE SQL: SQLITE, MYSQL, POSTGRESQL, SELECT \* FROM †1 > Join all combin. I LAST(c) > Last value ORACLEDB CROSS JOIN t2; >> Scalar functions: SELECT c1, c2 FROM t1, t2 > Join all combin. II **QUERYING DATA FROM A TABLE** UCASE(c) > Converts a field to upper case SELECT \* FROM †1 > Union 2 tables >> Selecting columns LCASE(c) > Converts a field to lower case UNION SELECT c1, c2 FROM table: > Selecting columns SELECT \* FROM t2: MID(c) > Extract characters from a text LEN(c) > Returns the length of a text SELECT \* FROM table > Selects n columns >> Join Types LIMIT n OFFSET n: ROUND(c) > Rounds a numbers to decimals LEFT / INNER / RIGHT / FULL OUTER / CROSS IOIN NOWO > Returns the current time SELECT DISTINCT c1 FROM table: > Selecting uniques FORMAT('0.5', 'percent') > How field is displayed SHORTCUTS AND SUBQUERIES >> Applying conditions: (after select \* from t) >> String and other functions: WHERE c1 LIKE I'ST ING' / 'S%' / '%s'1: > LIKE condition SELECT x.c1, v.c2 > Alias tables 'str01' | | 'add' | | 'str02' FROM t1 as x, t2 as v: > Concatenate strings WHERE c1 BETWEEN a AND b: > BETWEEN cond CONCAT\_WS ( '\_' , 'str1', 'str2') > Concatenate with symbol SELECT c1 as x, c2 v FROM t: > As no needed SUBSTR ('string', 1, 3) > Slice string by index ORDER BY C1 [ASC/DESC]: > Sorting columns FIND IN SET ('x', c1) > Find letters or symbols SELECT c1 / (SELECT \* FROM t2) > Subauery SELECT c1 AS 'col1' FROM table: > Renaming column FROM ±1 INSTR ('string', 's') > Count ocurrences of s WHERE c2 > (SELECT c3 FROM t2) LEFT ('words', 2) > First two letters WHERE CLIS NOT NUILL: > No nulls > Temp. subquery TRIM (' str ') > Strip the spaces WITH previous AS(

## FROM table GROUP BY C1:

\*\*HIFRARCHY: WHERE > GROUP BY > ORDER BY > LIMIT:

WHERE C1 IN ('01', '02'):

SELECT c1, aggregate(c2)

HAVING count(c2) > 5:

SELECT c1, count(c2) FROM table

LIMIT 5 OFFSET 10:

GROUP BY 2

> Show limit rows

> Filter groups

> Contain cond

> Grooping options

LPAD ('dog', 5, 'X') REPEAT ('str', 2)

SPACE(2)

STRCMP ('str1', 'str2')

strftime('%Y', col)

REPLACE ('xrayx', 'x') REVERSE ('asdf')

SUBSTRING INDEX('s.tr', '.', 1)

LOCATE ('dog', 'my dog', 1)

> Erase the string x > Returns reversed > Insert spaces

> String before '.'

> Extracts year from col.

> I ocates a word in a str.

> Fill size with symbols

> Repeats the string n

> Compare lenght strings

FROM T:

CREATE VIEW db.view name AS SELECT \* FROM db.t1: SELECT C1. CASE

FLSE d

END as c name

WHEN a > h THEN C

SELECT \* FROM t1)

SFI FCT \* FROM previous IOIN t2 ON previous.c1 = t2.c1:

> Conditional cases

> Permanent subo.

QUERYING DATA FROM MUL	TIPLE TABLES	CREATE TABLES		INDEXES		
SELECT c1, c2 FROM table JOIN table2;	> INNER join tables	CREATE TABLE table ( c1 TYPE , c2 TYPE);	> Create table	CREATE INDEX name ON t(c1, c2);		
SELECT c1, c2 FROM t1 JOIN t2 ON t1.col_id = t2.col_id;	> Joinning columns	CREATE TABLE table ( c1 TYPE PRIMARY KEY.	>Primary key	CREATE UNIQUE INDEX name ON t(c1, c2); DROP INDEX name;		
SELECT c1, c2 FROM t1 INNER JOIN t2 ON condition;	ition;	c2 TYPE);  CREATE TABLE table ( c1 TYPE, c2 TYPE, PRIMARY KEY (C1, C2) FOREIGN KEY (c1) REFERENCE:  DROP TABLE table name:	> Foreign Key			
SELECT c1, c2 FROM t1 LEFT JOIN t2 ON condition;			roleightey		> Show all tables in the file.db > Visualize by columns	
SELECT c1, c2 FROM t1 RIGHT JOIN t2 ON condition;			S t(c1)); > Delete table	.help > Get documenta .shell clear > Shell command	> Get documentation > Shell command clear console > Shell command listing console	
SELECT c1, c2 FROM t1 FULL OUTER JOIN t2 ON condition;		TRUNCATE TABLE t;	> Remove table data		> Show data types > New database	
SELECT * FROM t1 CROSS JOIN t2;	> Join all combin. I	MODIFY TABLES	. In a second second	.headers on .mode csv	> Visualize column names > Ready to import CSV files > Import CSV files as SQL	
SELECT * FROM t1 UNION	> Union 2 tables	INSERT INTO t (c1, c2) VALUES (1, 2) VALUES (2, 3);	> Insert rows	MANAGE TRIGGERS		
SELECT * FROM t2; SELECT c1, c2 FROM t1		DELETE FROM t WHERE condition;	> Delete rows	CREATE TRIGGER name WHEN EVENT ON t1 TRIGGER_TYP	> Create trigger	
INTERSECT SELECT c1, c2 FROM t2 ON condition	G.	ALTER TABLE t ADD COLUMN c1 TYPE;	> Add column	SET c1 = 0; ** WHEN BEFORE AFTER	> when the trigger occurs	
SELECT c1, c2 FROM t1 MINUS SELECT c1, c2 FROM t2;		ALTER TABLE t DROP COLUMN c1 TYPE;	> Add column			
SELECT c1, c2 FROM t1 WHERE		ALTER TABLE t1 RENAME TO t2;	> Rename table	** EVENT INSERT UPDATE	> Table events	
SELECT c1, c2 FROM t2;		ALTER TABLE t RENAME c1 TO C2;	> Rename column	DELETE		
SELECT c1, c2 FROM t1 MINUS SELECT c1, c2 FROM t2;		ALTER TABLE t ADD CONTRAINT name PRIMARY KEY (c1);	> Add constraint	** TRIGGER TYPE FOR EACH ROW FOR EACH STATEMI	> Trigger type ENT	
		ALTER TABLE t DROP constraint;	> Remove constraint	DROP TRIGGER trigger_na	me; > Erase trigger	
		UPDATE t SET c1 = (SELECT * FROM tab	> Update column le);			