Cheat sheets SQL

1. CREATE DATABASE / DROP DATABASE / SHOW DATABASE / IF EXISTS / DESCRIBE

DROP DATABASE IF EXISTS Restaurant;

create database Restaurant;

USE Restaurant;

Drop table if exists Restaurant;

show tables;

Describe Restaurant;

Describe Rating;

1. CREATE TABLE / ALTER TABLE / DROP TABLE

CREATE TABLE Restaurant (

RestaurtantID INT PRIMARY KEY AUTO\_INCREMENT,

RestName VARCHAR(255) not null,

Borough VARCHAR(255) NOT NULL,

cuisine VARCHAR(255),

YearEst INT NOT NULL,

avgPrice INT NOT NULL

);

Alter table Restaurant

#data type and constraints

modify avgPrice varchar(255) NOT NULL,

#drop columns

DROP COLUMN middle\_name,

#name, data type and constraints

CHANGE COLUMN age employee\_age INT;

DROP TABLE table\_name;

3.PRIMARY KEY / AUTO\_INCREMENT / DEFAULT / NOT NULL / UNIQUE / FOREIGN KEY REFERENCES

4.ADD COLUMN / DROP COLUMN / ALTER COLUMN

5.INT / FLOAT / DOUBLE / VARCHAR(255) / DATE / TIME

6.SELECT / INSERT / DELETE / FROM / WHERE / GROUP BY / AS

INSERT INTO Reviewer (firstName, lastName, affiliation) VALUES

('Sarah', 'Martinez', 'NYT'),

('Brittany', 'Harris', 'Vogue'),

('Ashley', 'White', 'NYT'),

('Elizabeth', 'Thomas', 'Chronicle'),

('Chris', 'Jackson', 'NYT');

7.Avg() / count() / sum() / max() / min() /

8.JOIN / INNER JOIN / RIGHT JOIN / LEFT JOIN / UNION

Update Restaurant

Left join RestADD on Restaurant.restName = RestADD.RestID

set Restaurant.streetAddress = RestADD.streetAddress,

Restaurant.city = RestADD.city,

Restaurant.state = RestADD.state,

Restaurant.zipCode = RestADD.zipCode,

Restaurant.status = RestADD.status;

SELECT \*

FROM Restaurant

LEFT JOIN

(SELECT restName, StarRating FROM Rating) AS Rating

ON Rating.restName = Restaurant.restName

WHERE Restaurant.status = 'open';

9.CREATE VIEW

1.JOIN / INNER JOIN: Matching values in both tables

2.LEFT JOIN: All values from left table, plus matching values from right

3.RIGHT JOIN: All values from right table, plus matching values from left

4.In LEFT / RIGHT JOIN: If there is no matching values from the other tables, NULL values will be joined