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;

2. **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. **INT / FLOAT / DOUBLE / VARCHAR(255) / DATE / TIME**

4. **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() /**

SELECT DISTINCT Part.Color

FROM Supplier, Part, Project, Shipment

WHERE Supplier.City = 'London' AND Project.City = 'Paris' AND Shipment.SupplierID = Supplier.SupplierID

    AND Shipment.PartID = Part.PartID AND

Shipment.ProjectID = Project.ProjectID

ORDER BY Part.Color;

SELECT ProjectID, count(PartID)

FROM Shipment

WHERE SupplierID = 1

GROUP BY ProjectID;

5. **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';

6. **CREATE VIEW**

    CREATE VIEW LONDON_SUPPLIERS AS (

      SELECT SupplierName

        FROM Supplier

        WHERE City = 'London');

```
## 5. Get dinstinct project numbers for projects
that are supplied by every supplier in London.
SELECT DISTINCT Shipment.ProjectID
FROM Shipment
WHERE Shipment.SupplierID IN ( -- select
shipment with suppliers in London
    SELECT SupplierID
    FROM Supplier
    WHERE City = 'London')
GROUP BY Shipment.ProjectID
HAVING COUNT(DISTINCT Shipment.SupplierID) = ( -
- check if the no of suppliers of such project
equals to that in London
    SELECT COUNT(*) -- count the number of
suppliers in London
    FROM Supplier
    WHERE City = 'London');
```