**Adding tables**

CREATE TABLE ratings (

id int NOT NULL,

food\_quality int NOT NULL CHECK (food\_quality BETWEEN 0 AND 5),

delivery int NOT NULL CHECK (delivery BETWEEN 0 AND 5),

overall\_satisfaction int NOT NULL CHECK (overall\_satisfaction BETWEEN 0 AND 5),

PRIMARY KEY (id),

FOREIGN KEY (id) REFERENCES orders(id)

);

CREATE TABLE review\_comment (

id int NOT NULL,

category varchar(25) NOT NULL,

line1 varchar(255) DEFAULT NULL,

line2 varchar(255) DEFAULT NULL,

line3 varchar(255) DEFAULT NULL,

CONSTRAINT PK\_review\_comment PRIMARY KEY (id,category),

FOREIGN KEY (id) REFERENCES ratings(id)

);

**Sample data**

--Restaurant 'Benes'

INSERT INTO ratings VALUES(100683, 4, 3, 4);

INSERT INTO ratings VALUES(99807, 3, 2, 4);

INSERT INTO ratings VALUES(99091, 1, 3, 3);

INSERT INTO ratings VALUES(98209, 5, 1, 3);

INSERT INTO ratings VALUES(98045, 2, 3, 3);

--Restaurant 'Hakataya'

INSERT INTO ratings VALUES(100670, 3, 2, 2);

INSERT INTO ratings VALUES(100429, 2, 3, 4);

INSERT INTO ratings VALUES(99958, 3, 4, 3);

INSERT INTO ratings VALUES(98777, 4, 3, 4);

INSERT INTO ratings VALUES(98617, 3, 2, 2);

INSERT INTO ratings VALUES(98591, 1, 3, 3);

INSERT INTO ratings VALUES(96616, 5, 5, 5);

INSERT INTO ratings VALUES(738, 4, 3, 4);

INSERT INTO ratings VALUES(201, 3, 2, 4);

--Restaurant "Bobby's Kebab House"

INSERT INTO ratings VALUES(100677, 4, 4, 4);

INSERT INTO ratings VALUES(100339, 3, 3, 3);

INSERT INTO ratings VALUES(98462, 1, 1, 2);

INSERT INTO ratings VALUES(98373, 3, 1, 3);

INSERT INTO ratings VALUES(98283, 4, 3, 4);

INSERT INTO ratings VALUES(195, 5, 3, 3);

--Restaurant 'Benes'

INSERT INTO review\_comment VALUES (100683, 'food\_quality', 'comment1', 'comment2', 'comment3');

INSERT INTO review\_comment VALUES (100683, 'delivery', 'comment1', 'comment2', NULL);

INSERT INTO review\_comment VALUES (100683, 'overall\_satisfaction', 'comment1', NULL, NULL);

INSERT INTO review\_comment VALUES (99807, 'food\_quality', 'comment1', 'comment2', NULL);

INSERT INTO review\_comment VALUES (99807, 'delivery', 'comment1', 'comment2', 'comment3');

INSERT INTO review\_comment VALUES (99091, 'food\_quality', 'comment1', 'comment2', 'comment3');

INSERT INTO review\_comment VALUES (99091, 'overall\_satisfaction', 'comment1', NULL, NULL);

INSERT INTO review\_comment VALUES (98045, 'overall\_satisfaction', 'comment1', 'comment2', NULL);

**Query the database**

SELECT res.name,

ROUND(SUM(rat.food\_quality)/COUNT(rat.food\_quality), 1) as 'food\_quality',

ROUND(SUM(rat.delivery)/COUNT(rat.delivery), 1) as 'delivery',

ROUND(SUM(rat.overall\_satisfaction)/COUNT(rat.overall\_satisfaction), 1) as 'overall\_satisfaction'

FROM ratings rat JOIN orders o ON rat.id=o.id

JOIN restaurant res ON res.id=o.restaurant\_id

GROUP BY res.name;

Graphical user interface

Description automatically generated with medium confidence

**3RD Normal Form**

Graphical user interface, application, table, Excel

Description automatically generated

**ER diagram**

Timeline

Description automatically generated