

## 1. Table Creation

```
Detach file from Container database | ▶Run on active connection | ≡Select block
1 CREATE TABLE menu (
2     restaurant_id INT NOT NULL,
3     item_name VARCHAR(100) NOT NULL,
4     price DECIMAL(10, 2) NOT NULL,
5     description TEXT,
6     PRIMARY KEY (restaurant_id, item_name),
7     FOREIGN KEY (restaurant_id) REFERENCES restaurant(id));
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

CREATE successfully executed. 9:46:11 AM

## 2. Sample Data Insertion

```
Detach file from Container database | ▶Run on active connection | ≡Select block
1 INSERT INTO restaurant (id, name, street_address, description)
2 VALUES
3 (1, 'Warteg Bahari', 'Jl. A', 'Simple restaurant that you can order food via touchscreen technology'),
4 (2, 'Warung Bakso', 'Jl. B', 'Restaurant specialized in making a delicacy from meatballs'),
5 (3, 'Warung Masakan Nusantara', 'Jl. C', 'Restaurant with Indonesian food');
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

INSERT successfully executed. 3 rows were affected. 9:48:12 AM

```
Detach file from Container database | ▶Run on active connection | ≡Select block
1 INSERT INTO menu (restaurant_id, item_name, price, description)
2 VALUES
3 (1, 'Ayam', 1.00, 'Fried chicken. '),
4 (1, 'Nasi', 0.50, 'Rice. '),
5 (1, 'Sayur', 0.75, 'Vegetables. '),
6 (2, 'Bakso Komplet', 3.00, 'Meatball with noodle. '),
7 (2, 'Mi Ayam Bakso', 3.50, 'Noodle with chicken and meatball. '),
8 (2, 'Bakso Rudal', 4.00, 'Meatball with ground meat fillings. '),
9 (3, 'Nasi Goreng', 5.00, 'Simple fried rice with eggs. '),
10 (3, 'Nasi Goreng Rendang', 7.50, 'Fried rice with beef curry. '),
11 (3, 'Ayam Betutu', 10.00, 'Whole roasted chicken. ');
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

INSERT successfully executed. 9 rows were affected. 9:49:25 AM

```
Detach file from Container database | ▶Run on active connection | ≡Select block
1 INSERT INTO review (id, restaurant, user_name, rating, review_text, review_date)
2 VALUES
3 (1, 1, 'Budi', 4, 'Great and fast food serving', '2025/03/10'),
4 (2, 1, 'Jono', 3, 'Wide variety to choose', '2025/03/10'),
5 (3, 1, 'Asep', 5, 'Delicious', '2025/03/10'),
6 (4, 1, 'Vika', 3, 'Crowded', '2025/03/10'),
7 (5, 1, 'Citra', 2, 'Unhygiene', '2025/03/10'),
8 (6, 2, 'Budi', 5, 'Amazing!', '2025/03/11'),
9 (7, 2, 'Jono', 4, 'Had a wild mouth experience here', '2025/03/11'),
10 (8, 2, 'Asep', 5, 'Delicious', '2025/03/11'),
11 (9, 2, 'Vika', 2, 'Waited too long', '2025/03/11'),
12 (10, 2, 'Citra', 4, 'The soup is rich', '2025/03/11'),
13 (11, 3, 'Budi', 2, 'Pricey', '2025/03/12'),
14 (12, 3, 'Jono', 5, 'Best Indo foods', '2025/03/12'),
15 (13, 3, 'Asep', 3, 'Pricey', '2025/03/12'),
16 (14, 3, 'Vika', 2, 'Pricey and the service is lame', '2025/03/12'),
17 (15, 3, 'Citra', 4, 'Great experiences', '2025/03/12');
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

INSERT successfully executed. 15 rows were affected. 9:53:21 AM

### 3. Read

Detach file from Container database | Run on active connection | ...

```
1 select *
2 from review
3 where restaurant = 2;
```

SELECT successfully executed. 9:59:19 AM

id	restaurant	user_name	rating	review_text	review_date
6	2	Budi	5	Amazing!	2025-03-11 00:00:00
7	2	Jono	4	Had a wild mouth experience here	2025-03-11 00:00:00
8	2	Asep	5	Delicious	2025-03-11 00:00:00
9	2	Vika	2	Waited too long	2025-03-11 00:00:00
10	2	Citra	4	The soup is rich	2025-03-11 00:00:00

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

Detach file from Container database | Run on active connection | ...

```
1 select *
2 from review
3 where rating >= 4;
```

SELECT successfully executed. 10:00:32 AM

id	restaurant	user_name	rating	review_text	review_date
1	1	Budi	4	Great and fast food serving	2025-03-10 00:00:00
3	1	Asep	5	Delicious	2025-03-10 00:00:00
6	2	Budi	5	Amazing!	2025-03-11 00:00:00
7	2	Jono	4	Had a wild mouth experience here	2025-03-11 00:00:00
8	2	Asep	5	Delicious	2025-03-11 00:00:00
10	2	Citra	4	The soup is rich	2025-03-11 00:00:00
12	3	Jono	5	Best Indo foods	2025-03-12 00:00:00
15	3	Citra	4	Great experiences	2025-03-12 00:00:00

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

Detach file from Container database | Run on active connection | ...

```
1 select rs.id, rs.name, rv.rating, rv.review_text
2 from restaurant as rs join
3 review as rv on rs.id=rv.restaurant;
```

SELECT successfully executed. 10:07:28 AM

id	name	rating	review_text
1	Warteg Bahari	4	Great and fast food serving
1	Warteg Bahari	3	Wide variety to choose
1	Warteg Bahari	5	Delicious
1	Warteg Bahari	3	Crowded
1	Warteg Bahari	2	Unhygiene
2	Warung Bakso	5	Amazing!
2	Warung Bakso	4	Had a wild mouth experience h...
2	Warung Bakso	5	Delicious
2	Warung Bakso	2	Waited too long
2	Warung Bakso	4	The soup is rich
3	Warung Masakan Nus...	2	Pricy
3	Warung Masakan Nus...	5	Best Indo foods
3	Warung Masakan Nus...	3	Pricy
3	Warung Masakan Nus...	2	Pricy and the service is lame
3	Warung Masakan Nus...	4	Great experiences

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

### 4. Update

Detach file from Container database | Run on active connection | Select block

```
1 UPDATE restaurant
2 SET description = 'Restaurant with delicious Indonesian food'
3 WHERE id = 3;
```

UPDATE successfully executed. 1 rows were affected. 4:45:01 AM

Detach file from Container database | Run on active connection | ...

```
1 UPDATE review
2 SET rating = 5
3 WHERE id = 1;
```

UPDATE successfully executed. 1 rows were affected. 4:46:58 AM

## 5. Delete

```
Detach file from Container database | ▶Run on active connection | ...  
1 delete from review  
2 where id=15;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE

DELETE successfully executed. 1 rows were affected. 4:48:16 AM

### Editing the foreign key for cascade delete

```
Detach file from Container database | ▶Run on active connection | ≡Select block  
1 alter table review  
2 drop constraint review_restaurant_fkey;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE C

ALTER successfully executed. 4:56:31 AM

```
Detach file from Container database | ▶Run on active connection | ≡Select block  
1 alter table review  
2 add constraint review_restaurant_fkey  
3 foreign key (restaurant) references restaurant(id) on delete cascade;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

ALTER successfully executed. 5:01:17 AM

### Delete cascade (foreign key in the table “menu” is also changed)

```
Detach file from Container database | ▶Run on active connection | ..  
1 delete from restaurant  
2 where id=3;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE

DELETE successfully executed. 1 rows were affected. 5:05:48 AM

### No more review for restaurant with the id of 3

```
Detach file from Container database | ▶Run on active connection | ≡Select block  
1 select * from review
```

id	restaurant	user_name	rating	review_text
2	1	Jono	3	Wide variety to ch
3	1	Asep	5	Delicious
4	1	Vika	3	Crowded
5	1	Citra	2	Unhygiene
6	2	Budi	5	Amazing!
7	2	Jono	4	Had a wild mouth
8	2	Asep	5	Delicious
9	2	Vika	2	Waited too long
10	2	Citra	4	The soup is rich
11	1	Budi	5	Great and fast foc

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS

SELECT successfully executed. 5:06:42 AM

## 6. Additional Queries

### a. Find the highest-rated restaurant based on the average rating of all its reviews.

1  
2  
3  
4  
5

Detach file from Container database | ▶ Run on active connection | ≡ Select block  
`select rs.id, rs.name, AVG(rv.rating) as average_rating  
from restaurant as rs join  
review as rv on rs.id=rv.restaurant  
GROUP BY rs.id  
ORDER BY average_rating desc;`

id	name	average_rating
2	Warung Bakso	4.0000000000000000
1	Warteg Bahari	3.4000000000000000
3	Warung Masakan Nusantara	3.2000000000000000

CONSOLE RE-RUN QUERY EXPORT OPEN

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS  
SELECT successfully executed. 10:14:09 AM

### b. Find the number of reviews each restaurant has received.

1  
2  
3  
4  
5

Detach file from Container database | ▶ Run on active connection | ≡ Select block  
`select rs.id, rs.name, COUNT(rv.rating) as review_count  
from restaurant as rs join  
review as rv on rs.id=rv.restaurant  
GROUP BY rs.id  
ORDER BY review_count desc;`

id	name	review_count
2	Warung Bakso	5
3	Warung Masakan Nusantara	5
1	Warteg Bahari	5

CONSOLE RE-RUN QUERY EXPORT OPEN

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS  
SELECT successfully executed. 10:17:08 AM

### c. Display the most recent review for each restaurant.

#### All review

1  
2  
3  
4

Detach file from Container database | ▶ Run on active connection | ≡ Select block  
`select rv.review_date, rs.name, rv.rating, rv.review_text  
from restaurant as rs join  
review as rv on rs.id=rv.restaurant  
ORDER BY review_date desc;`

review_date	name	rating	review_text
2025-03-12 00:00:00	Warung Masakan Nusantara	4	Great experiences
2025-03-12 00:00:00	Warung Masakan Nusantara	2	Pricey and the service is lame
2025-03-12 00:00:00	Warung Masakan Nusantara	2	Pricey
2025-03-12 00:00:00	Warung Masakan Nusantara	3	Pricey
2025-03-12 00:00:00	Warung Masakan Nusantara	5	Best Indo foods
2025-03-11 00:00:00	Warung Bakso	5	Delicious
2025-03-11 00:00:00	Warung Bakso	5	Amazing!
2025-03-11 00:00:00	Warung Bakso	4	Had a wild mouth experience here
2025-03-11 00:00:00	Warung Bakso	2	Waited too long
2025-03-11 00:00:00	Warung Bakso	4	The soup is rich
2025-03-10 00:00:00	Warteg Bahari	4	Great and fast food serving
2025-03-10 00:00:00	Warteg Bahari	2	Unhygiene
2025-03-10 00:00:00	Warteg Bahari	3	Crowded
2025-03-10 00:00:00	Warteg Bahari	5	Delicious
2025-03-10 00:00:00	Warteg Bahari	3	Wide variety to choose

CONSOLE RE-RUN QUERY EXPORT OPEN

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS  
SELECT successfully executed. 10:19:51 AM

#### Most recent review

1  
2  
3  
4

Detach file from Container database | ▶ Run on active connection | ≡ Select block  
`select distinct on (rv.review_date) rv.review_date, rs.name, rv.rating, rv.review_text  
from restaurant as rs  
join review as rv on rs.id = rv.restaurant  
ORDER BY rv.review_date desc;`

review_date	name	rating	review_text
2025-03-12 00:00:00	Warung Masakan Nusantara	4	Great experiences
2025-03-11 00:00:00	Warung Bakso	5	Delicious
2025-03-10 00:00:00	Warteg Bahari	4	Great and fast food serving

CONSOLE RE-RUN QUERY EXPORT OPEN

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 3 AZURE SQL CONSOLE COMMENTS  
SELECT successfully executed. 10:29:26 AM

\* Query update dan delete dikerjakan terakhir