



SEARCH



LAUNCH AWS GATEWAY



RESOURCES



CONCEPTS

- ✓ 10. Exercise 1: Creating Normaliz...
- ✓ 11. Solution: Exercise 1: Creating...
- ✓ 12. Denormalization
- ✓ 13. Demo 2: Creating Denormali...
- ✓ 14. Denormalization Vs. Normali...
- ✓ 15. Exercise 2: Creating Denorm...
- ✓ 16. Solution: Exercise 2: Creating...
- ✓ 17. Fact and Dimension Tables
- ✓ 18. Star Schemas
- ✓ 19. Benefits of Star Schemas
- ✓ 20. Snowflake Schemas
- ✓ 21. Demo 3: Creating Fact and Di...
- ✓ 22. Exercise 3: Creating Fact and ...
- ✓ 23. Solution: Exercise 3: Creating...
- ✓ 24. Data Definition and Constrai...
- ✓ 25. Upsert
- 26. Conclusion

## INSERT

The **INSERT** statement adds in new rows within the table. The values associated with columns can be added in any order.

Let's look at a simple example. We will use a customer address table as an example with the following **CREATE** statement:

```
CREATE TABLE IF NOT EXISTS customer_address (  
    customer_id int PRIMARY KEY,  
    customer_street varchar NOT NULL,  
    customer_city text NOT NULL,  
    customer_state text NOT NULL  
);
```

Let's try to insert data into it by adding a new row:

```
INSERT into customer_address (  
VALUES  
    (432, '758 Main Street', 'Chicago', 'IL'  
);
```

Now let's assume that the customer moved and we need to update the customer. We do not want to add a new customer id. In other words, if there is any conflict or we do not want that to change.

This would be a good candidate for using the **ON CONFLICT DO NOTHING** clause.

```
INSERT INTO customer_address (customer_id, customer_street, customer_city, customer_state)  
VALUES  
(  
    432, '923 Knox Street', 'Albany', 'NY'  
)  
ON CONFLICT (customer_id)  
DO NOTHING;
```

Now, let's imagine we want to add more details in the existing address for an existing customer. This would be a good candidate for using the **ON CONFLICT DO UPDATE** clause.

```
INSERT INTO customer_address (customer_id, customer_street)  
VALUES  
(  
    432, '923 Knox Street, Suite 1'  
)  
ON CONFLICT (customer_id)  
DO UPDATE  
    SET customer_street = EXCLUDED.customer_street;
```

We recommend checking out these two links to learn other ways to insert data into a table:

- [PostgreSQL tutorial](#)
- [PostgreSQL documentation](#)



Mentor Help

Ask a mentor on our Q&amp;A platform