

[Foreign key](#) – shows you how to define foreign key constraints when creating a new table or add foreign key constraints for existing tables.

PostgreSQL Foreign Key

```
CREATE TABLE so_headers (  
  id SERIAL PRIMARY KEY,  
  customer_id INTEGER,  
  ship_to VARCHAR (255)  
);
```

```
CREATE TABLE so_items (  
  item_id INTEGER NOT NULL,  
  so_id INTEGER,  
  product_id INTEGER,  
  qty INTEGER,  
  net_price NUMBER,  
  PRIMARY KEY (item_id,so_id)  
);
```

First way to define a foreign key constraint is to use the table constraint as

```
CREATE TABLE so_items (  
  item_id INTEGER NOT NULL,  
  so_id INTEGER REFERENCES so_headers(id),  
  product_id INTEGER,  
  qty INTEGER,  
  net_price numeric,  
  PRIMARY KEY (item_id,so_id)  
);
```

Second way to define a foreign key constraint is to use the table constraint as follows:

```
CREATE TABLE so_items (  
  item_id INTEGER NOT NULL,  
  so_id INTEGER,  
  product_id INTEGER,  
  qty INTEGER,  
  net_price NUMERIC,  
  PRIMARY KEY (item_id, so_id),  
  FOREIGN KEY (so_id) REFERENCES so_headers (id)  
);
```