

# Подзапросы

# Простой подзапрос

## *1 запрос*

```
select price
  from titles
where title = "ЧТИВО"
```

## *2 запрос*

```
select title, price
  from titles
where price = $6
```

## *Объединенный запрос*

```
select title, price
  from titles
where price =
  (select price
    from titles
   where title = "ЧТИВО")
```

# Несколько уровней вложенности

## *Уровневый запрос*

```
select au_lname, au_fname
  from authors
 where au_id in
   (select au_id
    from titleauthor
   where title_id in
     (select title_id
      from titles
     where type = "popular_child") )
```

## *соединение*

```
select au_lname, au_fname
  from authors, titles, titleauthor
 where authors.au_id = titleauthor.au_id
    and titles.title_id = titleauthor.title_id
    and type = "popular_child "
```

# Подзапросы в операторах модификации удаления и вставки

```
update titles
set price = price * 2
where pub_id in
(select pub_id
 from publishers
where pub_name = "ОдесаДрук")
```

```
delete salesdetail
where title_id in
(select title_id
 from titles
where type = "business")
```

## *Соединение*

```
set price = price * 2
from titles, publishers
where titles.pub_id = publishers.pub_id
and pub_name = "ОдесаДрук"
```

## *соединение*

```
delete salesdetail
from salesdetail, titles
where salesdetail.title_id = titles.title_id
and type = "business"
```

# Подзапросы в условных операторах

```
if exists (select title_id
          from titles
          where type = "business")
  begin
    delete salesdetail
    where title_id in
      (select title_id
       from titles
       where type = "business")
  end
```

# Подзапросы-выражения

```
select au_lname, au_fname
       from authors
       where city =
          (select city
           from publishers
           where pub_name = "ОдесаДрук")
```

# Использование коррелированных подзапросов

```
select au_lname, au_fname
       from authors
       where 100 in
              (select royaltyper
               from titleauthor
               where au_id = authors.au_id)
```

```
select royaltyper
       from titleauthor
       where au_id = "345"
```

```
select au_lname, au_fname
       from authors
       where 100 in (100)
```