

06

JOIN

Соединения

JOIN - Соединения

Suppliers (Поставщики)

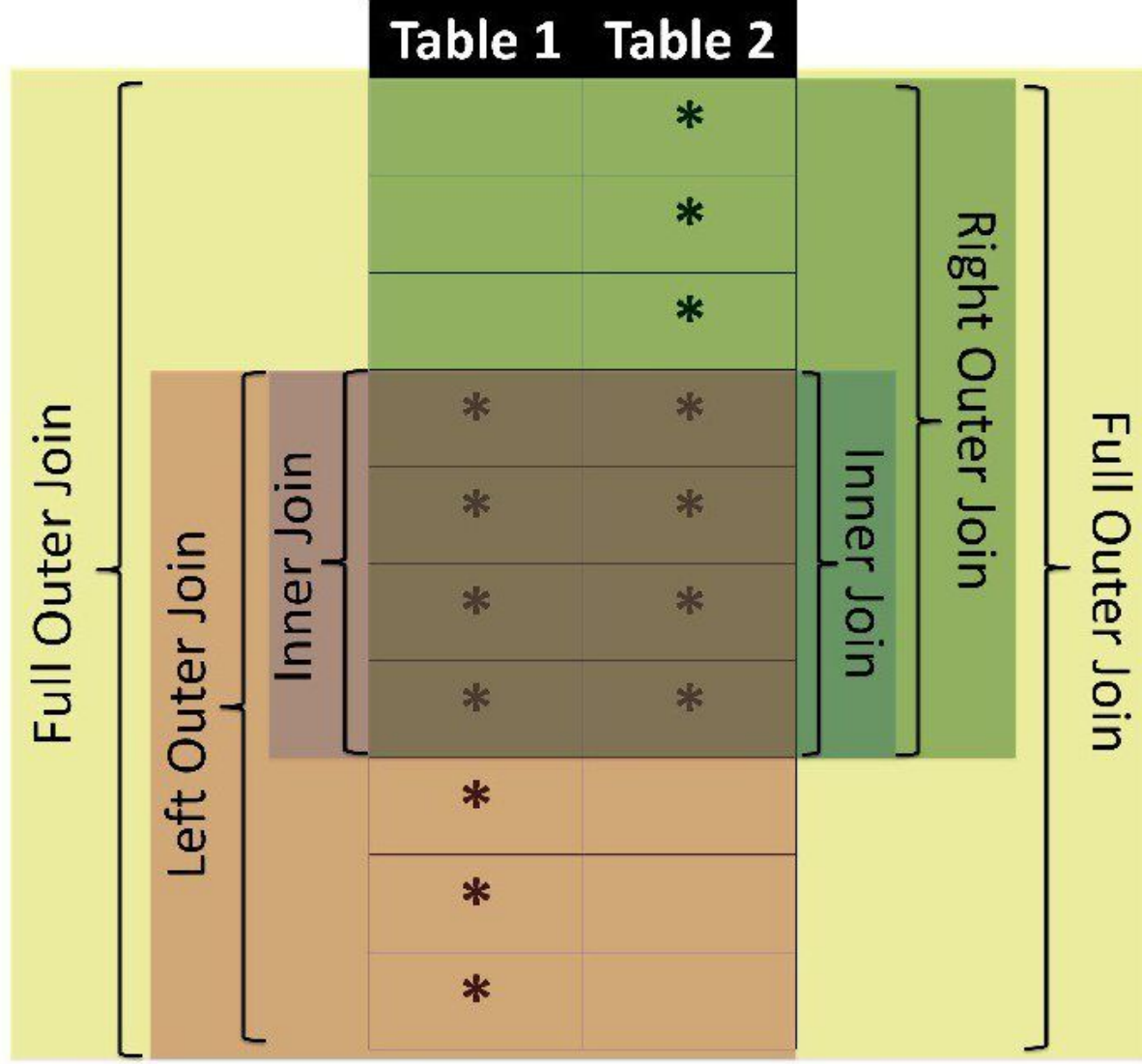
| SupplierID | SupplierName |
|------------|------------------------|
| 1 | A Datum Corporation |
| 2 | Contoso, Ltd. |
| 3 | Consolidated Messenger |
| 9 | Nod Publishers |

SupplierTransaction (Сделки с поставщиками)

| SupplierTransactionID | SupplierID | TransactionDate | TransactionAmount |
|-----------------------|------------|-----------------|-------------------|
| 293115 | 1 | 2016-01-04 | 2194.50 |
| 293124 | 1 | 2016-01-04 | 3762.00 |
| 293125 | 1 | 2016-01-04 | -5956.50 |
| 293548 | 1 | 2016-01-05 | 7524.00 |
| 293973 | 1 | 2016-01-06 | 4639.80 |
| 294505 | 1 | 2016-01-07 | 9405.00 |
| 295785 | 1 | 2016-01-11 | -21568.80 |
| 134 | 2 | 2013-01-02 | 360.53 |
| 1423 | 2 | 2013-01-07 | -360.53 |

```
SELECT <...>  
FROM Suppliers s  
JOIN SupplierTransactions t  
ON t.SupplierID = s.SupplierID
```

| SupplierID | SupplierName | SupplierTransactionID | SupplierID | TransactionDate | TransactionAmount |
|------------|---------------------|-----------------------|------------|-----------------|-------------------|
| 1 | A Datum Corporation | 293124 | 1 | 2016-01-04 | 3762.00 |
| 1 | A Datum Corporation | 293125 | 1 | 2016-01-04 | -5956.50 |
| 1 | A Datum Corporation | 293115 | 1 | 2016-01-04 | 2194.50 |
| 1 | A Datum Corporation | 293548 | 1 | 2016-01-05 | 7524.00 |
| 1 | A Datum Corporation | 293973 | 1 | 2016-01-06 | 4639.80 |
| 1 | A Datum Corporation | 294505 | 1 | 2016-01-07 | 9405.00 |
| 1 | A Datum Corporation | 295785 | 1 | 2016-01-11 | -21568.80 |
| 2 | Contoso, Ltd. | 134 | 2 | 2013-01-02 | 360.53 |
| 2 | Contoso, Ltd. | 1423 | 2 | 2013-01-07 | -360.53 |



- **CROSS JOIN**

Декартово произведение

```
FROM t1 CROSS JOIN t2
```

- **INNER JOIN**

Декартово произведение + фильтрация

```
FROM t1 [INNER] JOIN t2 on t1.id = t2.id
```

- **LEFT/RIGHT JOIN**

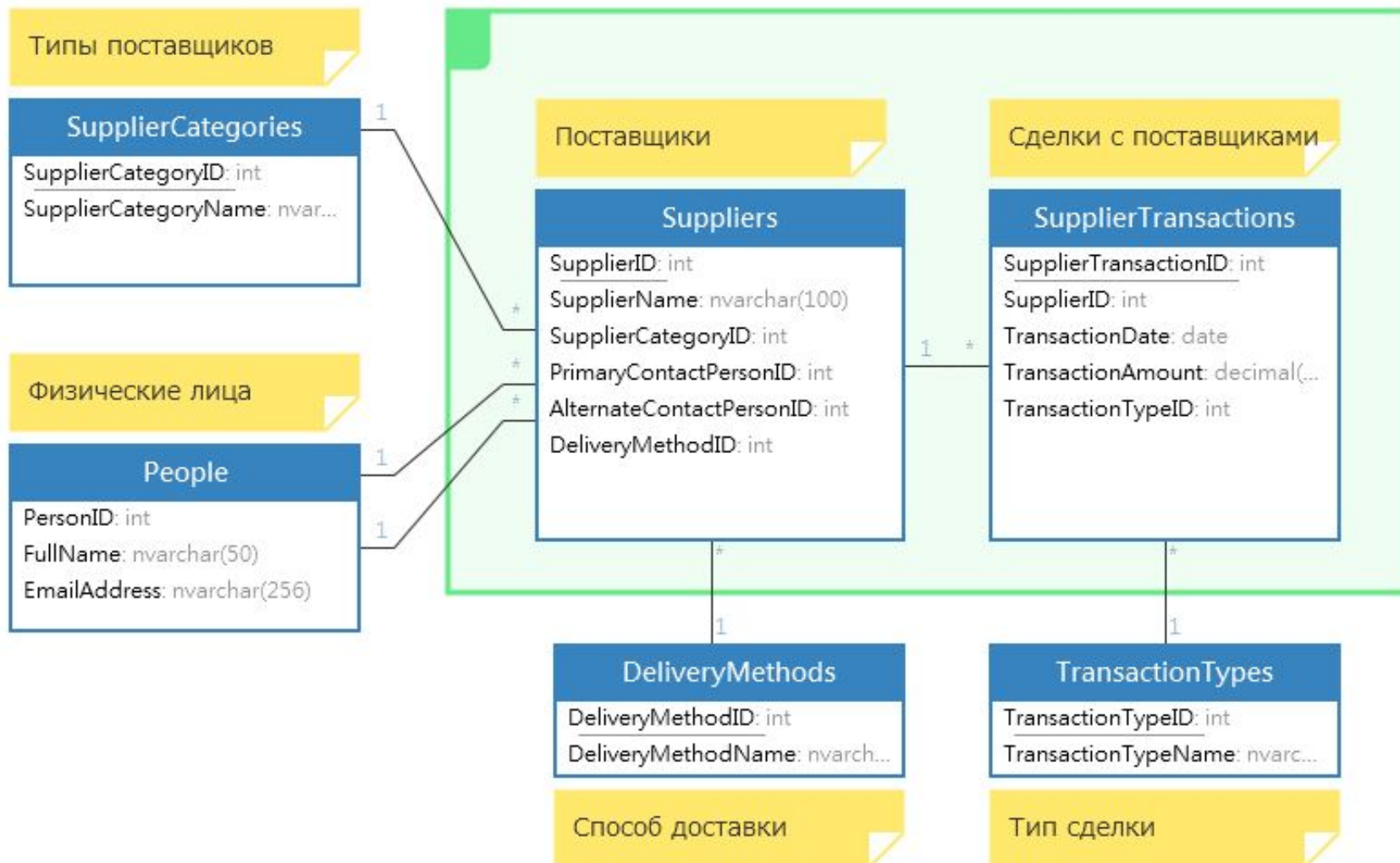
Декартово произведение + фильтрация + внешние строки

```
FROM t1 LEFT [OUTER] JOIN t2 on t1.id = t2.id
```

- **FULL JOIN**

LEFT JOIN + RIGHT JOIN

```
FROM t1 FULL [OUTER] JOIN t2 on t1.id = t2.id
```



ДЕМО JOIN

