TASK 1

***“подзапрос”-способ:***

```

SELECT SUM(UnitPrice \* Quantity) AS result

FROM sales\_items

WHERE SalesId IN (

SELECT SalesId

FROM sales

WHERE SalesDate BETWEEN '2012-01-01'

AND '2012-03-31' AND ShipCountry = 'USA'

);

```

***“join”-способ:***

```

SELECT SUM(i.UnitPrice \* i.Quantity) AS result

FROM sales\_items AS i LEFT JOIN sales AS s ON i.SalesId = s.SalesId

WHERE s.SalesDate BETWEEN '2012-01-01'

AND '2012-03-31' AND s.ShipCountry = 'USA';

```

TASK 2

***“подзапрос”-способ:***

```

SELECT DISTINCT customers.FirstName AS result

FROM customers

WHERE customers.FirstName NOT IN (

SELECT employees.FirstName

FROM employees

);

```

***“join”-способ:***

```

SELECT DISTINCT customers.FirstName AS result

FROM customers

LEFT JOIN employees ON customers.FirstName = employees.FirstName

WHERE employees.FirstName IS NULL;

```

***“логик”-способ:***

```

SELECT DISTINCT customers.FirstName as ClientFirstName AS result

FROM customers EXCEPT

SELECT employees.FirstName

FROM employees;

```

TASK 3

TASK 4

***“подзапрос”-способ:***

```

SELECT AlbumId, (

SELECT COUNT(\*)

FROM tracks

WHERE tracks.AlbumId = tracks.AlbumId) AS TracksAmount

FROM tracks

GROUP BY AlbumId;

```

***“join”-способ:***

```

SELECT tracks.AlbumId, COUNT(tracks.TrackId) AS TracksAmount

FROM tracks JOIN (

SELECT AlbumId

FROM tracks

GROUP BY AlbumId

) AS sub ON tracks.AlbumId = sub.AlbumId

GROUP BY tracks.AlbumId;

```

TASK 5

```

SELECT customers.LastName, customers.FirstName

FROM customers

JOIN sales ON customers.CustomerId = sales.CustomerId

WHERE customers.Country = 'Germany' AND sales.ShipCity = 'Berlin'

AND sales.SalesDate >= '2009-01-01' AND sales.SalesDate < '2010-01-01';

```

TASK 6

***“подзапрос”-способ:***

```

SELECT LastName

FROM customers

WHERE CustomerId IN (

SELECT CustomerId

FROM (

SELECT sales.CustomerId, SUM(sales\_items.Quantity) AS TotalQuantity

FROM sales

JOIN sales\_items ON sales.SalesId = sales\_items.SalesId

GROUP BY sales.CustomerId

)

WHERE TotalQuantity > 30);```

***“join”-способ:***

```

SELECT customers.LastName

FROM customers JOIN sales ON customers.CustomerId = sales.CustomerId

JOIN sales\_items ON sales.SalesId = sales\_items.SalesId

GROUP BY customers.CustomerId

HAVING SUM(sales\_items.Quantity) > 30;

```

TASK 7

```

SELECT genres.Name, ROUND(AVG(tracks.UnitPrice), 4) AS AvgPrice

FROM genres JOIN tracks ON tracks.GenreId = genres.GenreId

GROUP BY genres.Name

ORDER BY AvgPrice;

```

TASK 8

```

SELECT genres.Name

FROM genres JOIN tracks ON tracks.GenreId = genres.GenreId

GROUP BY genres.GenreId

HAVING AVG(tracks.UnitPrice) > 1;

```