

Assignment 3. Advanced Query

Using the following two tables, design your own query to answer questions. Then submit your answers at Sakai Assignments.

1. "Persons" table:

P_Id	LastName	FirstName	Address	City
1	Hansen	Ola	Timoteivn 10	Sandnes
2	Svendson	Tove	Borgvn 23	Sandnes
3	Pettersen	Kari	Storgt 20	Stavanger

Note that the "P_Id" column is the primary key in the "Persons" table.

2. "Orders" table:

O_Id	OrderNo	P_Id
1	77895	3
2	44678	3
3	22456	1
4	24562	1
5	34764	15

Q1. Design your query to generate the following output:

The result-set will look like this:

LastName	FirstName	OrderNo
Hansen	Ola	22456
Hansen	Ola	24562
Pettersen	Kari	77895
Pettersen	Kari	44678

Q2. Design any query using Select Distinct.

Q3. Count how many distinct city entries are in the Persons table.

Here are tablename(fieldnames) for Q4-Q5

Lives (personName, street, city)

Works (personName, companyName, salary)

Q4. Generate a list of employee and city names working at Microsoft.

Q5. Generate a list of employees who make more than \$100,000

Answers

1.

```
SELECT Persons.LastName, Persons.FirstName, Orders.OrderNo
FROM Persons
INNER JOIN Orders
ON Persons.P_Id=Orders.P_Id
ORDER BY Persons.LastName
```

2.

```
SELECT DISTINCT City FROM Persons
```

3.

```
SELECT      COUNT(DISTINCT City) AS NumberofCities
FROM        Persons
```

4.

```
SELECT      Lives.personName, Lives.city, Works.companyName
FROM        Lives INNER JOIN
            Works ON Lives.personName = Works.personName
WHERE       (Works.companyName = N'Microsoft')
```

5.

```
SELECT      Lives.personName, Works.salary
FROM        Lives INNER JOIN
            Works ON Lives.personName = Works.personName
WHERE       (Works.salary > 100000)
```

Additional instructor's comments about your submission

Good job.

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