

Introducción a los Sistemas de Bases de Datos
Laboratorio Subconsultas
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Ejercicio 1

Una consulta INNER JOIN a dos tablas, con una Subconsulta en el WHERE

“Select columna FROM Table1 INNER JOIN Table2 ON Table1.id = Table2.id
WHERE ... (Select columna .. FROM Table ..)”

```
SELECT B.IDBoleta, B.Rut, Z.Modelo, Z.Talla  
FROM Boleta B  
INNER JOIN Zapatillas Z ON B.ProductID = Z.ProductID  
WHERE Z.Talla > (SELECT AVG(Talla) FROM Zapatillas);
```

✓ Showing rows 0 - 8 (9 total, Query took 0.0014 seconds.)

```
SELECT B.IDBoleta,B.Rut,Z.Modelo,Z.Talla FROM Boleta B INNER JOIN Zapatillas Z ON B.ProductID = Z.ProductID WHERE Z.Talla >
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

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IDBoleta	Rut	Modelo	Talla
1	21395308	Nike Air Force 1	42
3	18178275	DC Central M	43
6	21395208	Nike DUNK LOW	43
10	21504203	Ultrarange	42
11	21444971	Nike DUNK LOW	42
15	21962969	Nike CR7	45
16	21037903	Nike Air Force 2	44
17	20096300	Nike Casual 02	43
18	21522471	Nike Speed 03	45

Ejercicio 2

Una Subconsulta incluida en el FROM

“Select columna, columna ... FROM tb1, (Select columna ... FROM tb1 WHERE Condición) WHERE Condición”

```
SELECT Boleta.IDBoleta, Boleta.Rut, Boleta.IDEnvio  
FROM Boleta , (SELECT Boleta.IDBoleta, Boleta.IDEnvio FROM Boleta WHERE  
Boleta.IDEnvio = 2) AS Subconsulta  
WHERE Boleta.IDBoleta = Subconsulta.IDBoleta;
```

Showing rows 0 - 10 (11 total, Query took 0.0012 seconds.)

```
SELECT Boleta.IDBoleta, Boleta.Rut,Boleta.IDEnvio FROM Boleta , (SELECT Boleta.IDBoleta,Boleta.IDEnvio FROM Boleta  
Boleta.IDBoleta=Subconsulta.IDBoleta;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

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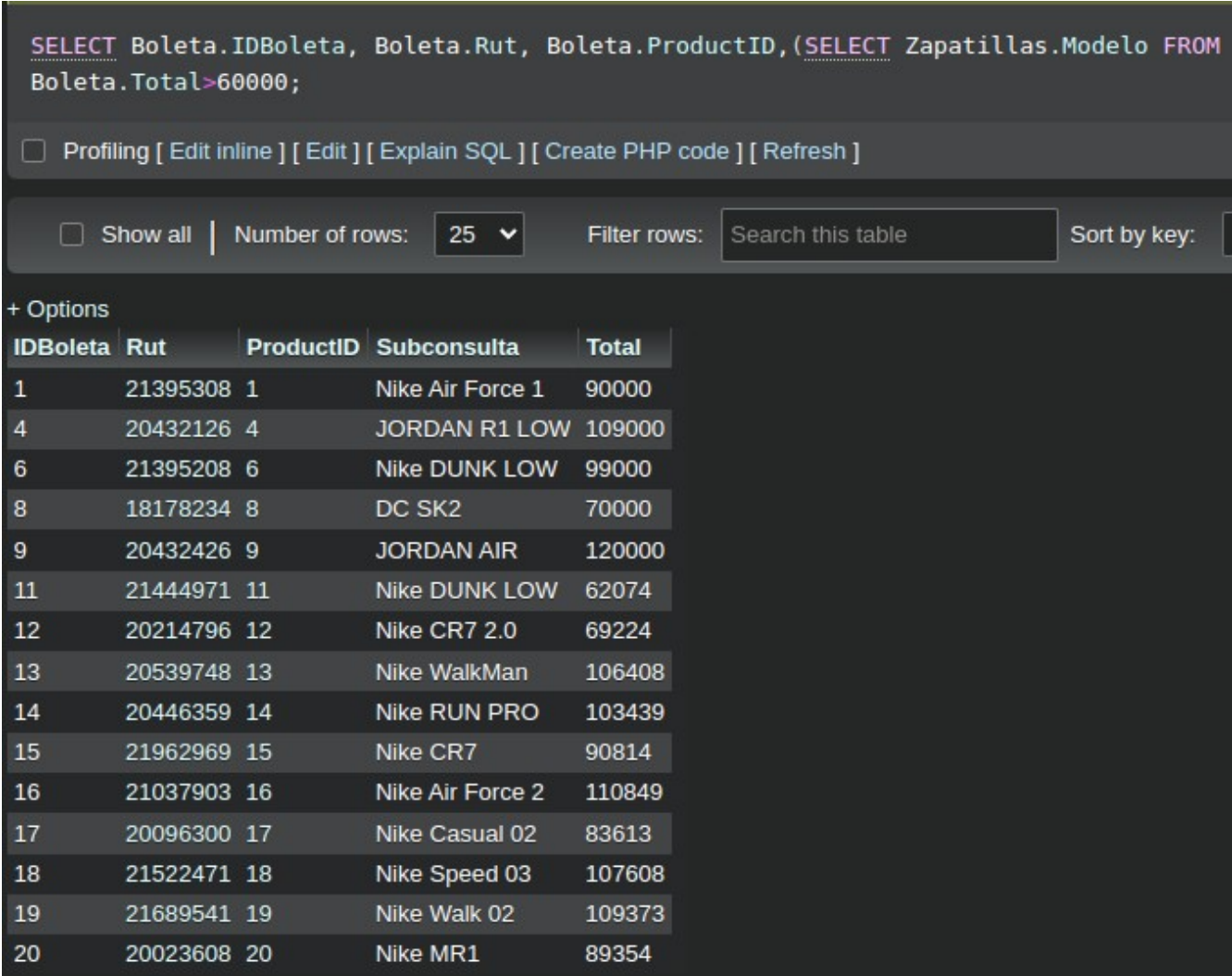
			IDBoleta	Rut	IDEnvio
<input type="checkbox"/>	Edit	Copy	Delete	2	20456202 2
<input type="checkbox"/>	Edit	Copy	Delete	4	20432126 2
<input type="checkbox"/>	Edit	Copy	Delete	6	21395208 2
<input type="checkbox"/>	Edit	Copy	Delete	8	18178234 2
<input type="checkbox"/>	Edit	Copy	Delete	10	21504203 2
<input type="checkbox"/>	Edit	Copy	Delete	12	20214796 2
<input type="checkbox"/>	Edit	Copy	Delete	13	20539748 2
<input type="checkbox"/>	Edit	Copy	Delete	14	20446359 2
<input type="checkbox"/>	Edit	Copy	Delete	15	21962969 2
<input type="checkbox"/>	Edit	Copy	Delete	19	21689541 2
<input type="checkbox"/>	Edit	Copy	Delete	20	20023608 2

Ejercicio 3

Una Subconsulta incluida en el SELECT

“Select colum1, (Select colum1 .. FROM tb1 WHERE Condición) ... FROM tb1
WHERE Condición”

```
SELECT Boleta.IDBoleta, Boleta.Rut, Boleta.ProductID,  
(SELECT Zapatillas.Modelo FROM Zapatillas  
WHERE Zapatillas.ProductID = Boleta.ProductID) AS "Subconsulta",Boleta.Total  
FROM Boleta  
WHERE Boleta.Total > 60000;
```



`SELECT Boleta.IDBoleta, Boleta.Rut, Boleta.ProductID, (SELECT Zapatillas.Modelo FROM Boleta.Total > 60000;`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key:

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IDBoleta	Rut	ProductID	Subconsulta	Total
1	21395308	1	Nike Air Force 1	90000
4	20432126	4	JORDAN R1 LOW	109000
6	21395208	6	Nike DUNK LOW	99000
8	18178234	8	DC SK2	70000
9	20432426	9	JORDAN AIR	120000
11	21444971	11	Nike DUNK LOW	62074
12	20214796	12	Nike CR7 2.0	69224
13	20539748	13	Nike WalkMan	106408
14	20446359	14	Nike RUN PRO	103439
15	21962969	15	Nike CR7	90814
16	21037903	16	Nike Air Force 2	110849
17	20096300	17	Nike Casual 02	83613
18	21522471	18	Nike Speed 03	107608
19	21689541	19	Nike Walk 02	109373
20	20023608	20	Nike MR1	89354

Ejercicio 4

Una consulta a una Tabla, con una Subconsulta en el WHERE, la cual incluye un INNER JOIN

Select Column1, ... FROM tb1 WHERE Condición [Operador] (Select column1, Column ... FROM tb1 INNER JOIN tb2 ON tb1.id=tb2.id WHERE Condición)

```
SELECT B.IDBoleta,B.Rut,B.CourrierID,Cl.Primer_Nombre,Cl.Apellido_Paterno
FROM Boleta B
NATURAL JOIN Cliente Cl
WHERE B.IDBoleta IN(SELECT B.IDBoleta FROM Boleta B INNER JOIN Courier C ON
C.CourrierID = B.CourrierID WHERE C.Nombre = 'Starken');
```

✓ Showing rows 0 - 1 (2 total, Query took 0.0016 seconds.)

```
SELECT B.IDBoleta,B.Rut,B.CourrierID,Cl.Primer_Nombre,Cl.Apellido_Paterno FROM Boleta B NATURAL JOIN Cliente Cl WHERE B.IDBoleta IN (SELECT B.IDBoleta FROM Boleta B INNER JOIN Courier C ON C.CourrierID = B.CourrierID WHERE C.Nombre = 'Starken');
```

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☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

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IDBoleta	Rut	CourrierID	Primer_Nombre	Apellido_Paterno
3	18178275	3	Ignacia	Bastias
8	18178234	3	Luciano	Ramirez

5) Ejercicio 4

Una Subconsulta que incluya un IN

```
SELECT B.IDBoleta,B.Rut,B.ShopID,Cl.Primer_Nombre,Cl.Apellido_Paterno,T.Nombre
FROM Boleta B
NATURAL JOIN Cliente Cl
NATURAL JOIN Tienda T
WHERE B.IDBoleta IN (SELECT B.IDBoleta FROM Boleta B
INNER JOIN Tienda T ON T.ShopID = B.ShopID WHERE T.Nombre = 'NikeStore');
```

SELECT B.IDBoleta,B.Rut,B.ShopID,Cl.Primer_Nombre,Cl.Apellido_Paterno,T.Nombre FROM Boleta B NATURAL JOIN Cliente Cl NATURAL JOIN Tienda T Boleta B INNER JOIN Tienda T ON T.ShopID = B.ShopID WHERE T.Nombre = 'NikeStore');

☐ Profiling

[Edit inline]

[Edit]

[Explain SQL]

[Create PHP code]

[Refresh]

☐ Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

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IDBoleta	Rut	ShopID	Primer_Nombre	Apellido_Paterno	Nombre
1	21395308	1	Luciano	Revillod	NikeStore
6	21395208	1	Jaime	Rodriguez	NikeStore
11	21444971	1	Martin	Perez	NikeStore
12	20214796	1	Olga	Lagos	NikeStore
13	20539748	1	Ignacio	Jimenez	NikeStore
14	20446359	1	Joaquin	Prieto	NikeStore
15	21962969	1	Gulsela	Ordones	NikeStore
16	21037903	1	Fermin	Vial	NikeStore
17	20096300	1	Matias	Garcia	NikeStore
18	21522471	1	Nicolas	Beltran	NikeStore
19	21689541	1	Eliana	Fernandez	NikeStore
20	20023608	1	Daniela	Perez	NikeStore

6) Una Subconsulta dentro de una consulta JOIN

Select columna1... FROM tb1 JOIN (Select columna1 ... FROM tb2 WHERE Condición) AS [Alias]

```
SELECT B.IDBoleta,B.Rut,B.ShopID,S.Modelo,S.Material
FROM Boleta B
INNER JOIN (SELECT Z.ProductID, Z.Modelo, Z.Material FROM Zapatillas Z WHERE
Z.Material = 'Cuero') as S
ON B.ProductID = S.ProductID;
```

```
SELECT B.IDBoleta,B.Rut,B.ShopID,S.Modelo,S.Material FROM Boleta B INNER JOIN (SELECT Z.ProductID,Z.Modelo,Z.Material FROM Zapatillas Z
S.ProductID;
```

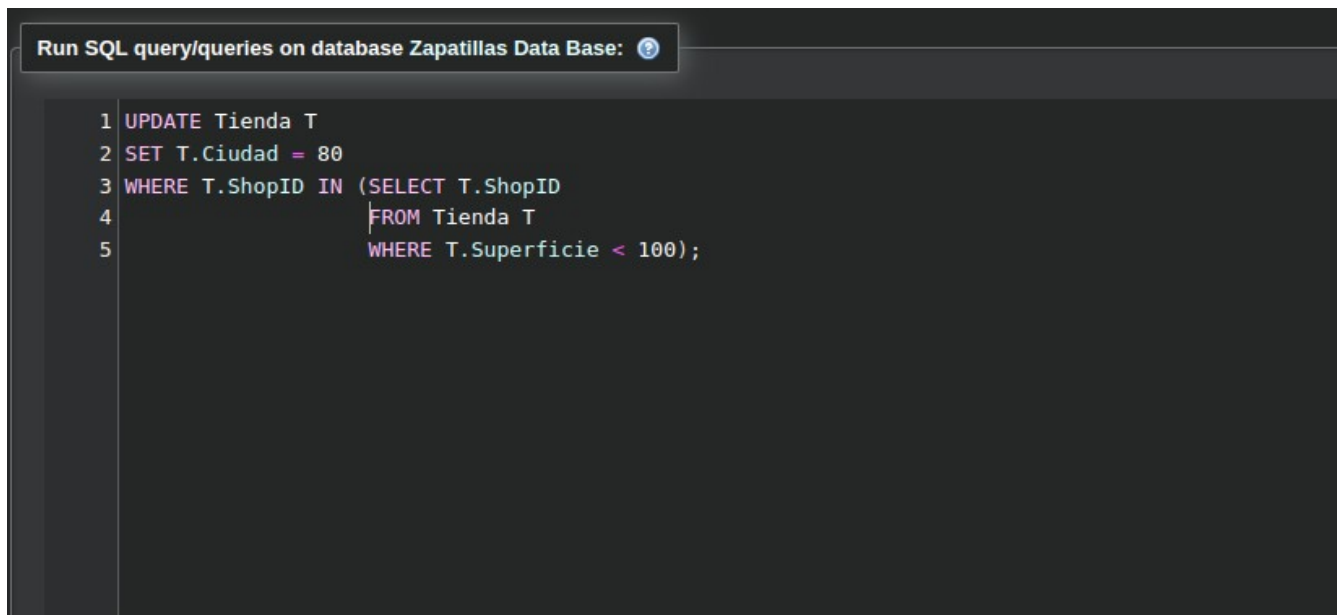
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

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IDBoleta	Rut	ShopID	Modelo	Material
2	20456202	2	Adidas Valencia	Cuero
4	20432126	4	JORDAN R1 LOW	Cuero
6	21395208	1	Nike DUNK LOW	Cuero
9	20432426	4	JORDAN AIR	Cuero
11	21444971	1	Nike DUNK LOW	Cuero
16	21037903	1	Nike Air Force 2	Cuero
18	21522471	1	Nike Speed 03	Cuero

7) Utilizar una Subconsulta para actualizar (UPDATE) filas (registros) de una tabla.



```
Run SQL query/queries on database Zapatillas Data Base: ?

1 UPDATE Tienda T
2 SET T.Ciudad = 80
3 WHERE T.ShopID IN (SELECT T.ShopID
4                     FROM Tienda T
5                     WHERE T.Superficie < 100);
```

Intente con ese comando, pero no resulto, busque documentación y no entendí que estaba mal.