Part 1: Creating Natural Joins.

- 1. Display all of the information about sales representatives and their addresses using a natural join.
- Adapt the query from the previous question to only show the id, first name, last name, address line 1, address line 2, city, email and phone_number for the sales representatives.
- 1. SELECT *

FROM sales_representatives

NATURAL JOIN sales_rep_addresses;

2. SELECT id, first-name, last-name, address_line_1, address_line_2, city, email, phone_number
FROM sales_representatives

NATURAL JOIN sales_rep_addresses;

Part 2: Creating Joins with the USING Clause

- 1. Adapt the previous query answer to use the USING clause instead of a natural join.
- 2. Display all of the information about items and their price history by joining the items and price_history tables.
- 1. SELECT id, first-name, last-name, address_line_1, address_line_2, city, emoil, phone_number

 FROM sales_representatives JOIN sales_rep_addresses

 USING (id);
- 2. SELECT *

From items JOIN price-history

USING Citm-number);

Part 3: Creating Joins with the ON Clause

- Use an ON clause to join the <u>customer</u> and <u>sales representative table</u> so that you display the <u>customer number</u>, <u>customer fist</u> name, <u>customer last</u> name, <u>customer phone number</u>, <u>customer email</u>, <u>sales representative dist</u> name, <u>sales representative last</u> name <u>and sales representative email</u>. You will need to use a table alias in your answer as both tables have columns with the same name.
- 1. SELECT c.ctr-number as "Customer Number" c.first-name as "Customer first Name"

 c.last-name as "Customer Last Name", c.phone-number as "Phone Number"

 c.email as "Customer Email", s.id as "Sales Representatives led"

 s.first-name as "Sales Rep First Name", s.last-name as "Sales Rep Last Name"

 s.email as "Sales Rep Email"

 FROM customers c JOIN sales-representatives s

 ON (c.ctr-number = s.id);

Part 4- Creating Three-Way Joins with the ON Clause

1. Using the answer to Task 3 add a join that will allow the team name that the customer represents to be included in the results.

```
1. SELECT c.ctr_number as "Customer Number", c.first_name as "Customer first Name"

c.last_name as "Customer Last Name", c.phone_number as "Phone Number"

c.email as "Customer Email", s.id as "Sales Representatives Id"

s.first_name as "Sales Rep First Name", s.last_name as "Bales Rep Last Name"

s.email as "Sales Rep Email", t.name as "Team Name"

FROM customers c Join sales_representatives $

ON (c.ctr_number = s.id)

Join teams t ON (c.team id.t.id);
```

Part 5: Applying Additional Conditions to a Join

 Using the answer to Task 4 add an additional condition to only show the results for the customer that has the number - c00001.

```
1. SELECT c.ctr_number as "Customer Number", c.first_name as "Customer first Name"

c.last_name as "Customer Last Name", c.phone_number as "Phone Number"

c.email as "Customer Email", s.id as "Sales Representatives Id"

s.first_name as "Sales Rep First Name", s.last_name as "Sales Rep Last Name"

s.email as "Sales Rep Email", f.name as "Team Name"

FROM customers c JOIN sales_representatives 8

ON (c.ctr_number = s.id)

JOIN teams t ON (c.team id + t.id)

WHERE c.ctr_number = "Coooo1".
```

Part 6: Retrieving Records with Nonequijoins

 Write a query that will display name and cost of the item with the number im01101045 on the 12th of December 2016. The output of the query should look like this:

The cost of the under shirt on this day was 14.99

SELECT 'the cost of the under 'll i.name ll'on this day was 'll p.price

FROM items ; JOIN price_history p

WHERE i.itm_number = `im 01101045' AND `l2/12/2016' between p.start_date and P.end_date;

Part 1: Use a Self-Join to Join a Table to Itself (S6LS	Objective 2)
 Write a query that will display who the supervise should be displayed in two columns, the first col representative and the second will be the first no be Rep and Supervisor. 	The state of the s
1. SELECT r.firs	t_name ` II r.Jast_name AS "Rep"
s fat	_name ` ' s.lastname As "Supervitor"
FROM entre	presentatives r JOIN Sales_representatives s
1 100 Zalez - Lel	increated for a contract the section of the section
ON Cr. super	visor_id = supervisor.id);
Write a query that will distance on the left (team).	splay all of the team and customer information even if there is no match with the table
SELECT *	
FROM team	LEFT OUTER JOIN;
Part 3 : Generating	a Cartesian Product (S6L9 Objective 4)
1 Constant Cont	
1. Create a Carte	esian product between the customer and sales representative tables.
SELECT	7
FROM	customers, sales_representatives;