Ejercicio 1

a. **Toda la Información de Proyectos por cada departamento**

* **Query:**

```
SELECT D.name AS Department, P.title AS Project, P.start_date, P.end_date, P.budget      FROM departments D
INNER JOIN employees E ON D.id = E.department_id
INNER JOIN [dbo].[employees_projects] EP ON E.id = EP.employee_id
INNER JOIN projects P ON EP.[project_id] = P.id;
```

	Department	Project	start_date	end_date	budget
1	Reporting	Update TPS Reports	2011-07-20	2011-10-28	100000
2	Silly Walks	Desing 3 New Silly Walks	2009-05-11	2009-08-19	100
3	Engineering	Build a cool site	2011-10-28	2012-01-26	1000000
4	Engineering	Build a cool site	2011-10-28	2012-01-26	1000000
5	Engineering	Build a cool site	2011-10-28	2012-01-26	1000000

b. **Cantidad de Proyectos por departamento**

***Query:**

```
SELECT D.name AS Department, COUNT(P.id) AS NumberOfProjects
FROM departments D
LEFT JOIN employees E ON D.id = E.department_id
LEFT JOIN employees_projects EP ON E.id = EP.employee_id
LEFT JOIN projects P ON EP.project_id = P.id
GROUP BY D.name;
```

	Department	NumberOfProjects
1	Biz Dev	0
2	Engineering	3
3	Marketing	0
4	Reporting	1
5	Silly Walks	1

c. **Departamentos con más de un (1) Proyecto**

***Query:**

```
SELECT D.name AS Department
FROM departments D
LEFT JOIN employees E ON D.id = E.department_id
LEFT JOIN employees_projects EP ON E.id = EP.employee_id
LEFT JOIN projects P ON EP.project_id = P.id
GROUP BY D.name
HAVING COUNT(P.id) > 1;
```

	Department
1	Engineering

d. **Nombre Completo de cada empleado asignados a cada Proyecto**

*** Query:**

```
SELECT P.title AS Project, CONCAT(E.first_name, ' ', E.last_name) AS EmployeeName
FROM projects P
INNER JOIN employees_projects EP ON P.id = EP.project_id
INNER JOIN employees E ON EP.employee_id = E.id;
```

	Project	EmployeeName
1	Update TPS Reports	John Smith
2	Desing 3 New Silly Walks	Ava Muffinson
3	Build a cool site	Cailin Ninson
4	Build a cool site	Mike Peterson
5	Build a cool site	Ian Peterson