

# Bases de Datos

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UD3 - Práctica 5.

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### Corregir error

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*Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`ud3\_ac5`.`dept\_emp`, CONSTRAINT `dept\_emp\_ibfk\_1` FOREIGN KEY (`emp\_no`) REFERENCES `employees` (`emp\_no`) ON DELETE CASCADE).*

El error Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails indica que se está intentando insertar o actualizar un registro en la tabla dept\_emp con un valor de dept\_no que no existe en la tabla departments.

Para resolver este error del script, al insertar lo primero tiene que ir `departments`, `employees`, y luego `dept\_emp`.



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## SQL

---

```
-- 1. lista el nombre del departamento actual de cada empleado.  
select e.first_name, e.last_name, d.dept_name  
from employees e  
join dept_emp de on e.emp_no = de.emp_no  
join departments d on de.dept_no = d.dept_no  
where current_date between de.from_date and de.to_date;
```

Result Grid		Filter Rows:	
	first_name	last_name	dept_name
▶	Huan	Lortz	Customer Service
	Basil	Tramer	Customer Service
	Breannda	Billingsley	Customer Service
	Jungsoon	Syrzycki	Customer Service
	Georgi	Facello	Development
	Anneke	Preusig	Development
	Patricio	Bridgland	Development
	Berni	Genin	Development
	Shahaf	Famili	Development
	Bojan	Montemayor	Development
	Divier	Reistad	Development
	Karsten	Joslin	Development
	Pradeep	Makrucki	Development
	Yishay	Tzvieli	Development
	Brendon	Bernini	Development
	Ebbe	Callaway	Development
	Anoosh	Peyn	Development
	Satosi	Awdeh	Development
	Kwee	Schusler	Development
	Hironoby	Sidou	Development
	Mokhtar	Bernatsky	Development
	Erez	Ritzmann	Development
	Danel	Mondadori	Development
	Kshitij	Gils	Development
	Amabile	Gomatam	Development
	Valdiodio	Niizuma	Development
	Alejandro	McAlpine	Finance
	Kyoichi	Maliniak	Human Resources
	Eberhardt	Terkki	Human Resources
	Adamantios	Portugali	Human Resources

Result 1 × Result 2 Result 3 Result 4

-- 2. muestra el salario actual de cada empleado y su nombre y apellidos.

```
select e.first_name, e.last_name, s.salary
from employees e
join salaries s on e.emp_no = s.emp_no
where current_date between s.from_date and s.to_date;
```

Result Grid   Filter Rows: <input type="text"/>			
	first_name	last_name	salary
▶	Georgi	Facello	88958
	Bezalel	Simmel	72527
	Parto	Bamford	43311
	Chirstian	Koblick	74057
	Kyoichi	Maliniak	94692
	Anneke	Preusig	59755
	Tzvetan	Zielinski	88070
	Sumant	Peac	94409
	Duangkaew	Piveteau	80324
	Patricio	Bridgland	54423
	Eberhardt	Terkki	68901
	Berni	Genin	60598
	Kazuhiro	Cappelletti	77935
	Cristinel	Bouloucos	99651
	Kazuhide	Peha	84672
	Lillian	Haddadi	50032
	Mayuko	Warwick	47017
	Shahaf	Famili	41348
	Bojan	Montema...	50113
	Suzette	Pettey	96646
	Yongqiao	Bertziss	66313
	Divier	Reistad	46145
	Otmar	Herbst	77777
	Elvis	Demeyer	88806
	Karsten	Joslin	56689
	Jeong	Reistad	69539
	Alain	Chappelet	68755
	Adamantios	Portugali	63053
	Pradeep	Makrucki	60574
	Huan	Lortz	64254

Result 1Result 2 ×Result 3

```
-- 3. obtén la lista completa de jefes actuales de departamento y sus títulos.
select e.first_name, e.last_name, t.title, d.dept_name
from employees e
join dept_manager dm on e.emp_no = dm.emp_no
join departments d on dm.dept_no = d.dept_no
join titles t on e.emp_no = t.emp_no
where current_date between dm.from_date and dm.to_date
and current_date between t.from_date and t.to_date;
```

	first_name	last_name	title	dept_name
►	Parto	Bamford	Senior Engineer	Production
	Yinghua	Dredge	Senior Staff	Finance

Result 1   Result 2   **Result 3** ×   Result 4   Result 5




```
-- 4. enumera los 3 departamentos con más empleados en la actualidad.  
select d.dept_name, count(de.emp_no) as num_employees  
from departments d  
join dept_emp de on d.dept_no = de.dept_no  
where current_date between de.from_date and de.to_date  
group by d.dept_name  
order by num_employees desc  
limit 3;
```

	dept_name	num_employees
►	Development	22
	Production	20
	Sales	11





Result 1   Result 2   Result 3   Result 4 ×



```
-- 5. enumera a todos los empleados que han trabajado en el mismo departamento durante más de 2 años.
select e.first_name, e.last_name, d.dept_name, de.from_date, de.to_date
from employees e
join dept_emp de on e.emp_no = de.emp_no
join departments d on de.dept_no = d.dept_no
where current_date between de.from_date and de.to_date
and datediff(current_date, de.from_date) > 730; -- 730 días ≈ 2 años
```

Result Grid		 Filter Rows:			Export:		Wrap Cell C
	first_name	last_name	dept_name	from_date	to_date		
▶	Huan	Lortz	Customer Service	1989-09-20	9999-01-01		
	Basil	Tramer	Customer Service	1992-05-04	9999-01-01		
	Breannnda	Billingsley	Customer Service	1992-11-11	9999-01-01		
	Jungsoon	Syrzycki	Customer Service	1992-03-21	9999-01-01		
	Georgi	Facello	Development	1986-06-26	9999-01-01		
	Anneke	Preusig	Development	1990-08-05	9999-01-01		
	Patricio	Bridgland	Development	1992-12-18	9999-01-01		
	Berni	Genin	Development	1993-12-29	9999-01-01		
	Shahaf	Famili	Development	1999-09-03	9999-01-01		
	Bojan	Montemayor	Development	1999-09-27	9999-01-01		
	Divier	Reistad	Development	1995-04-02	9999-01-01		
	Karsten	Joslin	Development	1991-09-01	9999-01-01		
	Pradeep	Makrucki	Development	1990-12-05	9999-01-01		
	Yishay	Tzvieli	Development	1990-10-20	9999-01-01		
	Brendon	Bernini	Development	1990-02-01	9999-01-01		
Result 1	Result 2	Result 3	Result 4	Result 5	×	Result 6	

```
-- 6. calcula el salario medio por departamento entre los empleados que actualmente trabajan en él.
select d.dept_name, avg(s.salary) as avg_salary
from departments d
join dept_emp de on d.dept_no = de.dept_no
join salaries s on de.emp_no = s.emp_no
where current_date between de.from_date and de.to_date
and current_date between s.from_date and s.to_date
group by d.dept_name;
```

Result Grid   Filter Rows:  Export:  Wrap Cell Co

	dept_name	avg_salary
▶	Customer Service	76692.7500
	Development	64348.4545
	Finance	94161.0000
	Human Resources	69650.3000
	Marketing	86096.5000
	Production	71607.3000
	Quality Management	83941.0000
	Research	72375.2857
	Sales	87200.4545

Result 1Result 2Result 3Result 4Result 5Result 6 x

```
-- 7. muestra al empleado mejor pagado de cada departamento entre los que trabajan actualmente.
select e.first_name, e.last_name, d.dept_name, s.salary
from employees e
join dept_emp de on e.emp_no = de.emp_no
join departments d on de.dept_no = d.dept_no
join salaries s on e.emp_no = s.emp_no
where current_date between de.from_date and de.to_date
and current_date between s.from_date and s.to_date
and s.salary = (select max(s1.salary)
                from salaries s1
                where s1.emp_no = e.emp_no
                and current_date between s1.from_date and s1.to_date);
```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
first_name	last_name	dept_name	salary
Georgi	Facello	Development	88958
Bezalel	Simmel	Sales	72527
Parto	Bamford	Production	43311
Chirstian	Koblick	Production	74057
Kyoichi	Maliniak	Human Resources	94692
Anneke	Preusig	Development	59755
Tzvetan	Zielinski	Research	88070
Sumant	Peac	Quality Management	94409
Duangkaew	Piveteau	Quality Management	80324
Patricio	Bridgland	Development	54423
Eberhardt	Terkki	Human Resources	68901
Berni	Genin	Development	60598
Kazuhito	Cappelletti	Sales	77935
Cristinel	Bouloucos	Marketing	99651
Kazuhide	Peha	Production	84672

Result 1
Result 2
Result 3
Result 4
Result 5
Result 6
Result 7 ×

```
-- 8. muestra los detalles del jefe actual de departamentos con el salario más bajo.
select e.first_name, e.last_name, d.dept_name, s.salary
from employees e
join dept_manager dm on e.emp_no = dm.emp_no
join departments d on dm.dept_no = d.dept_no
join salaries s on e.emp_no = s.emp_no
where current_date between dm.from_date and dm.to_date
and current_date between s.from_date and s.to_date
and s.salary = (select min(s2.salary)
                from salaries s2
                join dept_manager dm2 on s2.emp_no = dm2.emp_no
                where current_date between dm2.from_date and dm2.to_date
                and current_date between s2.from_date and s2.to_date);
```

Result Grid					Filter Rows:		Export:	Wrap Cell Content:
	first_name	last_name	dept_name	salary				
▶	Parto	Bamford	Production	43311				

Result 1
Result 2
Result 3
Result 4
Result 5
Result 6
Result 7
Result 8 x

```
-- 9. muestra el salario, título, nombre y apellido del primer empleado contratado por la empresa.
select s.salary, t.title, e.first_name, e.last_name
from employees e
join titles t on e.emp_no = t.emp_no
join salaries s on e.emp_no = s.emp_no
where e.hire_date = (select min(hire_date) from employees)
and current_date between s.from_date and s.to_date
and current_date between t.from_date and t.to_date;
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	salary	title	first_name	last_name
▶	94409	Senior Engineer	Sumant	Peac

Result 1   Result 2   Result 3   Result 4   Result 5   Result 6   Result 7   Result 8   **Result 9** ×