



Bases de datos

Actividades del tema 9

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Tarea: Realizar 15 consultas utilizando insert, update, delete y truncate.
 Añadir commits, rollbacks, savepoints.

Consultas.

1. Insertar un encargo nuevo a la tabla Jobs con un savepoint.

```
SAVEPOINT inicio;
INSERT INTO jobs VALUES ('B_SIT', 'Baby Sitter', 500, 55000);
```

Resultado:

	JOB_ID	JOB_TITLE	MIN_SALARY	MAX_SALARY
1	B_SIT	Baby Sitter	500	55000

2. Insertar nuevo departamienento a la tabla departments.

```
INSERT INTO departments (department_id, department_name, manager_id,
location_id)
SELECT MAX(department_id) + 10, 'Babysitting Services', NULL, 1500
FROM departments;
```

Resultado:

	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	280	Babysitting Services	(null)	1500

3. Insertar un nuevo empleado con encargo y departamienento insertado, hacemos un commit y creamos un savepoint.

```
INSERT INTO employees (employee_id, first_name, last_name, email,
phone_number,hire_date, job_id, salary, commission_pct, manager_id,
department_id)
SELECT MAX(employee_id) + 1, 'Jonny', 'Sins', 'BIGHEAD', '555.555.4322' ,
SYSDATE, 'B_SIT', 55000, null, null, 280 FROM employees;
COMMIT;
```

SAVEPOINT JONNY;

Resultado:

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	207	Jonny	Sins	BIGHEAD	555.555.4322	11/03/25	B_SIT	60000	(null)	(null)	280

4. Cambiar el salario del empleado Jonny Sins a 50000.

```
UPDATE employees
SET salary = 50000
WHERE first_name = 'Jonny' AND last_name = 'Sins';
```

Resultado:

	FIRST_NAME	LAST_NAME	SALARY
1	Jonny	Sins	50000

5. Insertar otro empleado con el mismo encargo con el savepoint.

```
INSERT INTO employees (employee_id, first_name, last_name, email,  
phone_number,hire_date, job_id, salary, commission_pct, manager_id,  
department_id)  
SELECT MAX(employee_id) + 1, 'Michael', 'Jordan', 'goodman', '444.555.4322'  
, SYSDATE, 'B_SIT', 5000, null, null, 280 FROM employees;  
  
SAVEPOINT michael;
```

Resultado:

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
1	219	Michael	Jordan	goodman	444.555.4322	12/03/25	B_SIT	5000	(null)	(null)	280

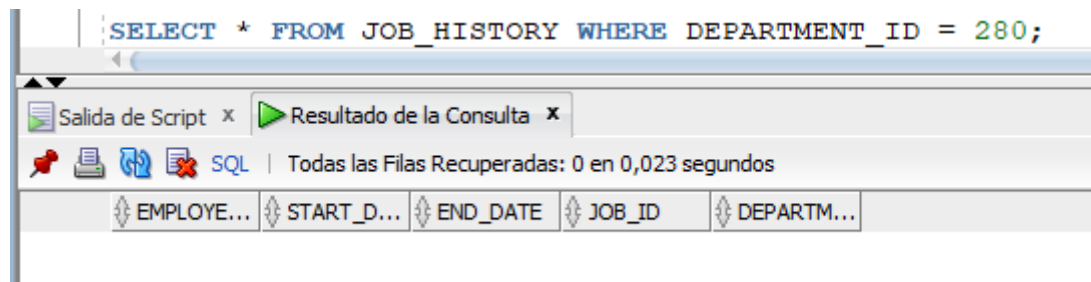
6. Hacemos un error global, pero por tener un savepoint, podemos hacer un rollback.

```
SAVEPOINT michael;  
  
DELETE FROM job_history;  
  
ROLLBACK michael;
```

7. Eliminar de la tabla job_history departamento 280 y confirmamos.

```
DELETE FROM job_history  
WHERE department_id = 280;  
  
COMMIT;
```

Resultado:



8. Sin querer asignamos a todos los empleados el salario a 8999 y volvemos al savepoint.

```
SAVEPOINT point;  
  
UPDATE employees  
SET salary = 8999;  
  
ROLLBACK;
```

9. Insertamos 10 empleados a los departamentos distintos

```
INSERT INTO employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id)
```

```
SELECT MAX(employee_id) + 1, 'Lucas', 'Ramírez', 'lramirez', '444.555.1001',  
SYSDATE, 'IT_PROG', 5000, 0.25, NULL, 60 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 2, 'Sofía', 'González', 'sgonzalez', '444.555.1002',  
SYSDATE, 'SA_MAN', 7000, 0.15, 101, 80 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 3, 'Mateo', 'Fernández', 'mfernandez', '444.555.1003',  
SYSDATE, 'AC_MGR', 8200, 0.10, 102, 10 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 4, 'Valentina', 'López', 'vlopez', '444.555.1004',  
SYSDATE, 'PU_CLERK', 4500, 0.25, 103, 30 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 5, 'Javier', 'Torres', 'jtorres', '444.555.1005', SYSDATE,  
'MK_MAN', 9000, 0.15, 104, 20 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 6, 'Camila', 'Díaz', 'cdiaz', '444.555.1006', SYSDATE,  
'HR_REP', 4600, 0.10, NULL, 40 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 7, 'Alejandro', 'Castro', 'acastro', '444.555.1007',  
SYSDATE, 'FI_ACCOUNT', 4200, 0.25, 105, 100 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 8, 'Martina', 'Pérez', 'mperez', '444.555.1008',  
SYSDATE, 'ST_MAN', 5500, 0.15, NULL, 50 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 9, 'Tomás', 'Silva', 'tsilva', '444.555.1009', SYSDATE,  
'SA_REP', 6000, 0.10, 106, 80 FROM employees
```

```
UNION ALL
```

```
SELECT MAX(employee_id) + 10, 'Elena', 'Mendoza', 'emendoza', '444.555.1010',  
SYSDATE, 'AD_VP', 15000, 0.25, 107, 90 FROM employees;
```

Resultado:

108	207 Jonny	Sins	BIGHEAD	555.555.4322	11/03/25 B_SIT	50000
109	208 Lucas	Ramírez	lramirez	444.555.1001	11/03/25 IT_PROG	5000
110	209 Sofía	González	sgonzalez	444.555.1002	11/03/25 SA_MAN	7000
111	210 Mateo	Fernández	mfernandez	444.555.1003	11/03/25 AC_MGR	8200
112	211 Valentina	López	vlopez	444.555.1004	11/03/25 PU_CLERK	4500
113	212 Javier	Torres	jtorres	444.555.1005	11/03/25 MK_MAN	9000
114	213 Camila	Díaz	cdiaz	444.555.1006	11/03/25 HR_REP	4600
115	214 Alejandro	Castro	acastro	444.555.1007	11/03/25 FI_ACCOUNT	4200
116	215 Martina	Pérez	mperez	444.555.1008	11/03/25 ST_MAN	5500
117	216 Tomás	Silva	tsilva	444.555.1009	11/03/25 SA_REP	6000
118	217 Elena	Mendoza	emendoza	444.555.1010	11/03/25 AD_VP	15000
119	218 Isabella	Martinez	imartinez	444.555.1011	11/03/25 G_DES	6500
120	219 Michael	Jordan	goodman	444.555.4322	12/03/25 B_SIT	5000

10. Insertar un nuevo cargo a la tabla Jobs.

```
SAVEPOINT job1;
INSERT INTO jobs VALUES ('G_DES', 'Graphic Designer', 6000, 75000);
COMMIT;
```

Resultado:

21	G_DES	Graphic Designer	6000	75000
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11. Insertar nuevo departamento a la tabla departments.

```
SAVEPOINT department1;
INSERT INTO departments (department_id, department_name, manager_id,
location_id)
SELECT MAX(department_id) + 1, 'Marketing and Communications', NULL,
2000 FROM departments;
COMMIT;
```

Resultado:

29	281	Marketing and Communications	(null)	2000
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12. Insertar a un empleado con el cargo G_DES.

```
SAVEPOINT employee1;
INSERT INTO employees (employee_id, first_name, last_name, email,
phone_number, hire_date, job_id, salary, commission_pct, manager_id,
department_id)
SELECT MAX(employee_id) + 1, 'Isabella', 'Martinez', 'imartinez',
'444.555.1011', SYSDATE, 'G_DES', 6500, 0.20, NULL, 60 FROM employees;
COMMIT;
```

Resultado:

119	218	Isabella	Martinez	imartinez	444.555.1011	11/03/25	G_DES	6500
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13. Subir el salario al empleado Jonny Sins a 60000.

```
SAVEPOINT updateSalary1;  
UPDATE employees  
SET salary = 60000  
WHERE first_name = 'Jonny' AND last_name = 'Sins';  
COMMIT;
```

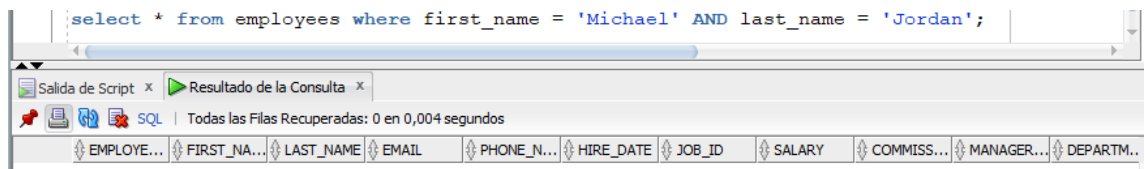
Resultado:

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID
1	207	Jonny	Sins	BIGHEAD	555.555.4322	11/03/25	B_SIT	60000	(null)	(null)

14. Eliminar a empleado Michael Jordan.

```
SAVEPOINT deleteEmployee1;  
DELETE FROM employees  
WHERE first_name = 'Michael' AND last_name = 'Jordan';  
COMMIT;
```

Resultado:

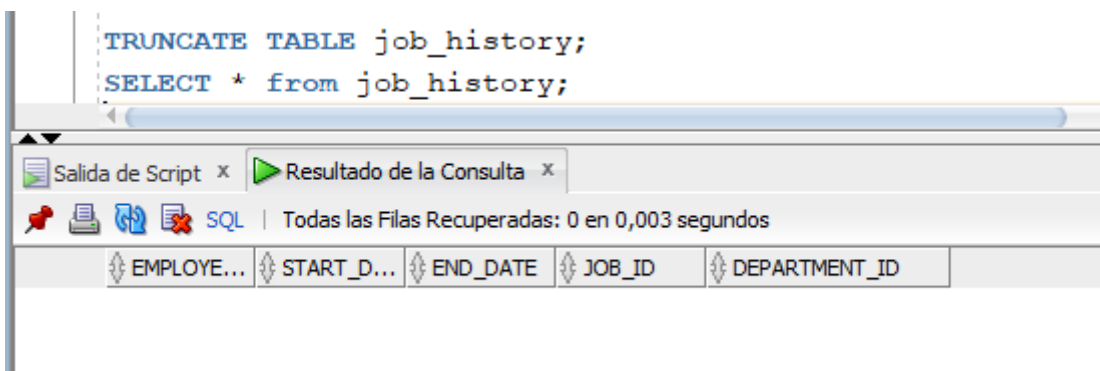


The screenshot shows a SQL Developer window with a query: `select * from employees where first_name = 'Michael' AND last_name = 'Jordan';`. The result is displayed in a table with columns: EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL, PHONE_NUMBER, HIRE_DATE, JOB_ID, SALARY, COMMISSION_PCT, MANAGER_ID, and DEPARTMENT_ID. The table is empty, indicating that Michael Jordan has been successfully deleted.

15. Vaciar la tabla job_history.

```
TRUNCATE TABLE job_history;
```

Resultado:



The screenshot shows a SQL Developer window with two queries: `TRUNCATE TABLE job_history;` and `SELECT * from job_history;`. The result is displayed in a table with columns: EMPLOYEE_ID, START_DATE, END_DATE, JOB_ID, and DEPARTMENT_ID. The table is empty, indicating that the job_history table has been successfully truncated.