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Part III : Spring Boot & JPA.

Down We can see all our employees that listed using the curl

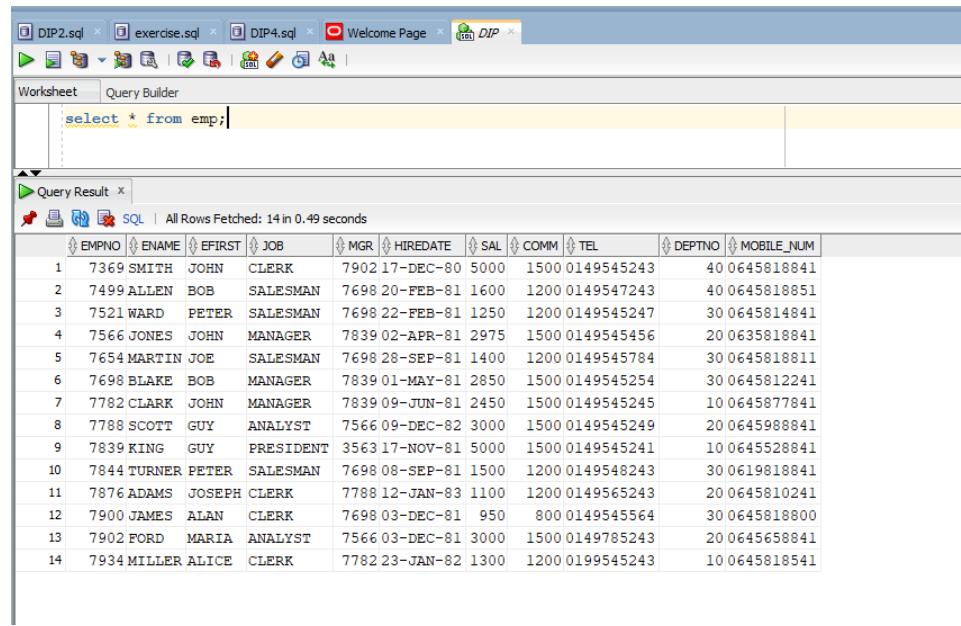
```
C:\Users\Hacker>curl http://localhost:9090/employees
[{"empno":7369,"ename":"SMITH","efirst":"JOHN","job":"CLERK","mgr":7902,"sal":5000,"department":null}, {"empno":7499,"ename":"ALLEN","efirst":"BOB","job":"SALESMAN","mgr":7498,"sal":1600,"department":null}, {"empno":7521,"ename":"WARD","efirst":"PETER","job":"SALESMAN","mgr":7698,"sal":1250,"department":null}, {"empno":7566,"ename":"JONES","efirst":"JOHN","job":"MANAGER","mgr":7839,"sal":2975,"department":null}, {"empno":7654,"ename":"MARTIN","efirst":"JOE","job":"SALESMAN","mgr":7698,"sal":1400,"department":null}, {"empno":7698,"ename":"BLAKE","efirst":"BOB","job":"MANAGER","mgr":7839,"sal":2850,"department":null}, {"empno":7782,"ename":"CLARK","efirst":"JOHN","job":"MANAGER","mgr":7839,"sal":2450,"department":null}, {"empno":7844,"ename":"TURNER","efirst":"PETER","job":"SALESMAN","mgr":7698,"sal":1500,"department":null}, {"empno":7839,"ename":"KING","efirst":"GUY","job":"PRESIDENT","mgr":3563,"sal":5000,"department":null}, {"empno":7788,"ename":"SCOTT","efirst":"GUILLermo","job":"ANALYST","mgr":7566,"sal":3000,"department":null}, {"empno":7876,"ename":"ADAMS","efirst":"JOSEPH","job":"CLERK","mgr":7788,"sal":1100,"department":null}, {"empno":7900,"ename":"JAMES","efirst":"ALAN","job":"CLERK","mgr":7698,"sal":950,"department":null}, {"empno":7902,"ename":"FORD","efirst":"MARIA","job":"ANALYST","mgr":7566,"sal":3000,"department":null}]

C:\Users\Hacker>
```

Down We can see our employees that listed using it's empno by the curl

```
C:\Users\Hacker>curl http://localhost:9090/employees/7839
{"empno":7839,"ename":"KING","efirst":"GUY","job":"PRESIDENT","mgr":3563,"sal":5000,"department":null}
C:\Users\Hacker>
```

Now it's time to send a delete request we can see that we have 14 employees in our emp table.



The screenshot shows the Oracle SQL Developer interface with the 'Query Result' tab selected. The results of a query 'select * from emp;' are displayed in a grid. The table has 14 rows, each representing an employee with columns: EMPNO, ENAME, EFIRST, JOB, MGR, HIREDATE, SAL, COMM, TEL, DEPTNO, and MOBILE_NUM. The data includes various names like SMITH, ALLEN, CLARK, KING, etc., with their respective details such as job titles (CLERK, SALESMAN, MANAGER, PRESIDENT) and department numbers (DEPTNO).

	EMPNO	ENAME	EFIRST	JOB	MGR	HIREDATE	SAL	COMM	TEL	DEPTNO	MOBILE_NUM
1	7369	SMITH	JOHN	CLERK	7902	17-DEC-80	5000	1500	0149545243	40	0645818841
2	7499	ALLEN	BOB	SALESMAN	7698	20-FEB-81	1600	1200	0149547243	40	0645818851
3	7521	WARD	PETER	SALESMAN	7698	22-FEB-81	1250	1200	0149545247	30	0645814841
4	7566	JONES	JOHN	MANAGER	7839	02-APR-81	2975	1500	0149545456	20	0635818841
5	7654	MARTIN	JOE	SALESMAN	7698	28-SEP-81	1400	1200	0149545784	30	0645818811
6	7698	BLAKE	BOB	MANAGER	7839	01-MAY-81	2850	1500	0149545254	30	0645812241
7	7782	CLARK	JOHN	MANAGER	7839	09-JUN-81	2450	1500	0149545245	10	0645877841
8	7788	SCOTT	GUY	ANALYST	7566	09-DEC-82	3000	1500	0149545249	20	0645988841
9	7839	KING	GUY	PRESIDENT	3563	17-NOV-81	5000	1500	0149545241	10	0645528841
10	7844	TURNER	PETER	SALESMAN	7698	08-SEP-81	1500	1200	0149548243	30	0619818841
11	7876	ADAMS	JOSEPH	CLERK	7788	12-JAN-83	1100	1200	0149565243	20	0645810241
12	7900	JAMES	ALAN	CLERK	7698	03-DEC-81	950	800	0149545564	30	0645818800
13	7902	FORD	MARIA	ANALYST	7566	03-DEC-81	3000	1500	0149785243	20	0645658841
14	7934	MILLER	ALICE	CLERK	7782	23-JAN-82	1300	1200	0199545243	10	0645818541

Using the following we can send a delete request to our api using curl by empno

```
curl -X DELETE http://localhost:9090/employees/7934
```

```
[cmd] C:\WINDOWS\system32\cmd.exe
C:\Users\Hacker>curl -X DELETE http://localhost:9090/employees/7934
C:\Users\Hacker>
```

The delete operation ran successfully and currently we can see instead of 14 emp we have 13 emp

The screenshot shows the Oracle SQL Developer interface. In the top navigation bar, there are tabs for DIP2.sql, exercise.sql, DIP4.sql, Welcome Page, and DIP. Below the tabs is a toolbar with various icons. The main area has two tabs: Worksheet and Query Builder. The Worksheet tab is selected, and the code `select * from emp;` is entered in the worksheet pane. Below the worksheet is a query result pane titled "Query Result". It displays the results of the query, which is a list of 13 employees from the EMP table. The columns shown are EMPNO, ENAME, EFIRST, JOB, MGR, HIREDATE, SAL, COMM, TEL, DEPTNO, and MOBILE_NUM. The data includes rows for employees like SMITH, ALLEN, WARD, JONES, MARTIN, BLAKE, CLARK, SCOTT, KING, TURNER, ADAMS, JAMES, and FORD.

	EMPNO	ENAME	EFIRST	JOB	MGR	HIREDATE	SAL	COMM	TEL	DEPTNO	MOBILE_NUM
1	7369	SMITH	JOHN	CLERK	7902	17-DEC-80	5000	1500	0149545243	40	0645818841
2	7499	ALLEN	BOB	SALESMAN	7698	20-FEB-81	1600	1200	0149547243	40	0645818841
3	7521	WARD	PETER	SALESMAN	7698	22-FEB-81	1250	1200	0149545247	30	0645814841
4	7566	JONES	JOHN	MANAGER	7839	02-APR-81	2975	1500	0149545456	20	0635818841
5	7654	MARTIN	JOE	SALESMAN	7698	28-SEP-81	1400	1200	0149545784	30	0645818811
6	7690	BLAKE	BOB	MANAGER	7839	01-MAY-81	2850	1500	0149545254	30	0645812241
7	7782	CLARK	JOHN	MANAGER	7839	09-JUN-81	2450	1500	0149545245	10	0645877841
8	7788	SCOTT	GUY	ANALYST	7566	09-DEC-82	3000	1500	0149545249	20	0645988841
9	7839	KING	GUY	PRESIDENT	3563	17-NOV-81	5000	1500	0149545241	10	0645528841
10	7844	TURNER	PETER	SALESMAN	7698	08-SEP-81	1500	1200	0149548243	30	0619818841
11	7876	ADAMS	JOSEPH	CLERK	7788	12-JAN-83	1100	1200	0149565243	20	0645810241
12	7900	JAMES	ALAN	CLERK	7698	03-DEC-81	950	800	0149545564	30	0645818800
13	7902	FORD	MARIA	ANALYST	7566	03-DEC-81	3000	1500	0149785243	20	0645658841

So for last one I used the postman because of the data is organized in the top we can see that the emp 7844 is TURNER but using following we successfully update our data

The screenshot shows the Postman interface. On the left, there's a sidebar with 'Collections' expanded, showing 'My first collection' with 'First folder inside collection' and 'Second folder inside collection'. Below it are sections for 'Create a collection for your requests', 'Start working with APIs', and a progress bar at 67%.

In the main area, a request is being made to `http://localhost:9090/employees/7844` using a `PUT` method. The 'Body' tab is selected, showing the following JSON payload:

```

1  {
2      "empno": 7844,
3      "ename": "Mujtaba",
4      "efirst": "Ahmady",
5      "job": "ANALYST",
6      "mgr": 7566,
7      "sal": 4000
8  }

```

Below the body, the response is shown in the 'Test Results' tab, indicating a `200 OK` status with a time of 57 ms and a size of 252 B.

After Updating the data we can see that the emp 7844 successfully updated.

The screenshot shows the Oracle SQL Developer interface. The top navigation bar has tabs for DIP2.sql, exercise.sql, DIP4.sql, DIP5.sql, and DIP. The 'Worksheet' tab is active, displaying the following SQL code:

```

ALTER TABLE EMP
DROP COLUMN DEPTNO;

select * from EMP;

commit;

```

The 'Query Result' tab at the bottom shows the results of the `select * from EMP;` query. The table has 13 rows, and the 10th row (highlighted) corresponds to the updated employee data:

	EMPNO	ENAME	EFIRST	JOB	MGR	HIREDATE	SAL	COMM	TEL	MOBILE_NUM
1	7369	SMITH	JOHN	CLERK	7902	17-DEC-80	5000	1500	0149545243	0645818841
2	7499	ALLEN	BOB	SALESMAN	7698	20-FEB-81	1600	1200	0149547243	0645818851
3	7521	WARD	PETER	SALESMAN	7698	22-FEB-81	1250	1200	0149545247	0645814841
4	7566	JONES	JOHN	MANAGER	7839	02-APR-81	2975	1500	0149545456	0635818841
5	7654	MARTIN	JOE	SALESMAN	7698	28-SEP-81	1400	1200	0149545784	0645818811
6	7698	BLAKE	BOB	MANAGER	7839	01-MAY-81	2850	1500	0149545254	0645812241
7	7782	CLARK	JOHN	MANAGER	7839	09-JUN-81	2450	1500	0149545245	0645877841
8	7788	SCOTT	GUY	ANALYST	7566	09-DEC-82	3000	1500	0149545249	0645988841
9	7839	KING	GUY	PRESIDENT	3563	17-NOV-81	5000	1500	0149545241	0645528841
10	7844	Mujtaba	Ahmady	ANALYST	7566	08-SEP-81	4000	1200	0149548243	0619818841
11	7876	ADAMS	JOSEPH	CLERK	7788	12-JAN-83	1100	1200	0149565243	0645810241
12	7900	JAMES	ALAN	CLERK	7698	03-DEC-81	950	800	0149545564	0645818800
13	7902	FORD	MARIA	ANALYST	7566	03-DEC-81	3000	1500	0149785243	0645658841