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Part III : Spring Boot & JPA.

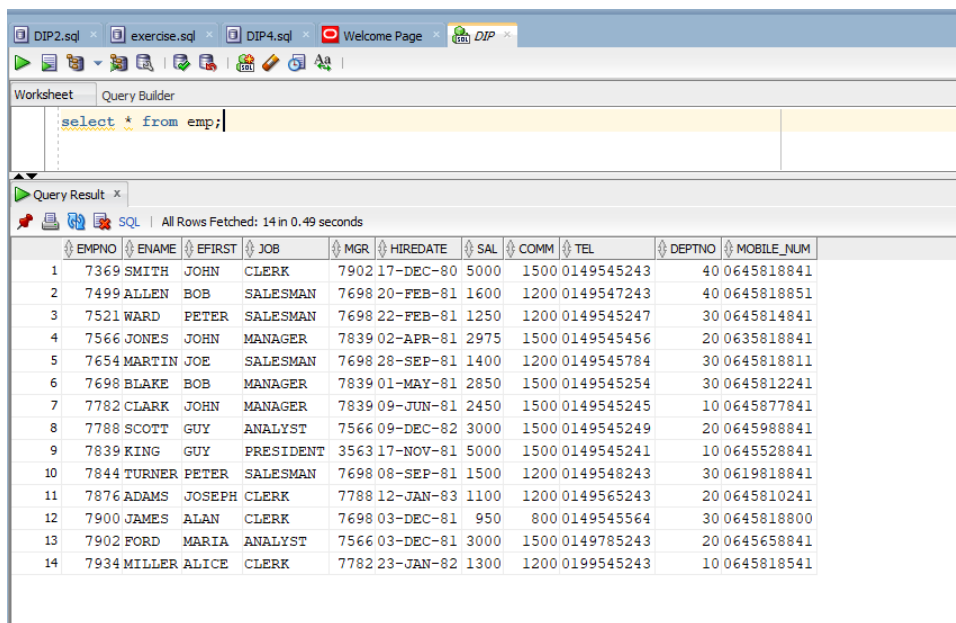
Down We can see all our employees that listed using the curl

```
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":7698,"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":7788,"ename":"SCOTT","efirst":"GUY","job":"ANALYST","mgr":7566,"sal":3000,"department":null}, {"empno":7839,"ename":"KING","efirst":"GUY","job":"PRESIDENT","mgr":3563,"sal":5000,"department":null}, {"empno":7844,"ename":"TURNER","efirst":"PETER","job":"SALESMAN","mgr":7698,"sal":1500,"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 a database query tool interface. The 'Query Builder' tab is active, displaying the query `select * from emp;`. Below the query, the 'Query Result' tab shows the results of the query. The results are displayed in a table with 14 rows and 10 columns: EMPNO, ENAME, EFIRST, JOB, MGR, HIREDATE, SAL, COMM, TEL, and DEPTNO. The table contains the following data:

	EMPNO	ENAME	EFIRST	JOB	MGR	HIREDATE	SAL	COMM	TEL	DEPTNO
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

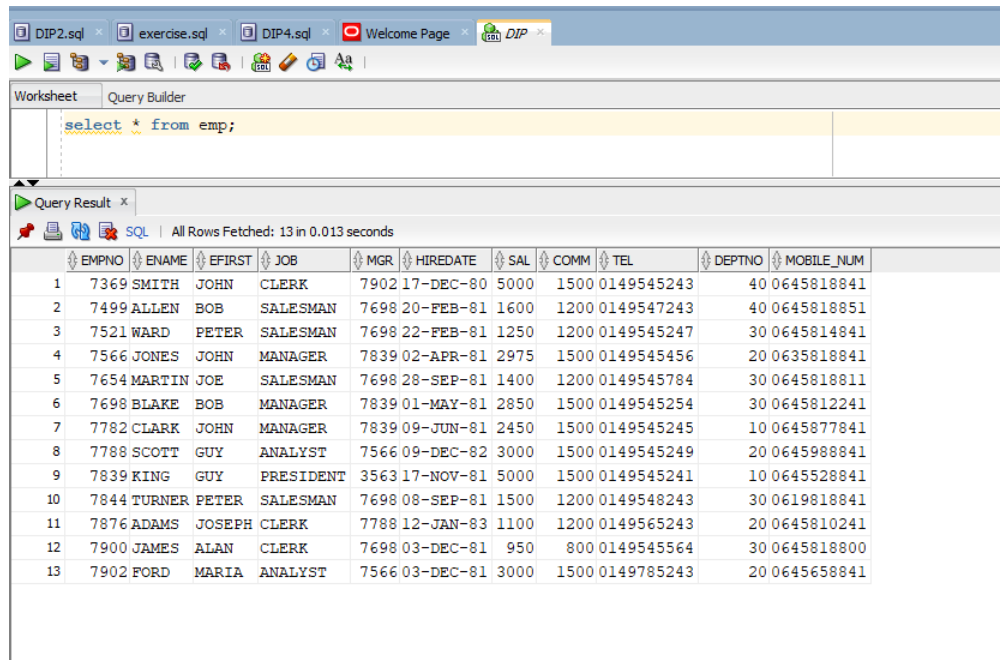
curl -X DELETE <http://localhost:9090/employees/7934>

```
C:\WINDOWS\system32\cmd.exe

C:\Users\Hacker>curl -X DELETE http://localhost:9090/employees/7934

C:\Users\Hacker>
```

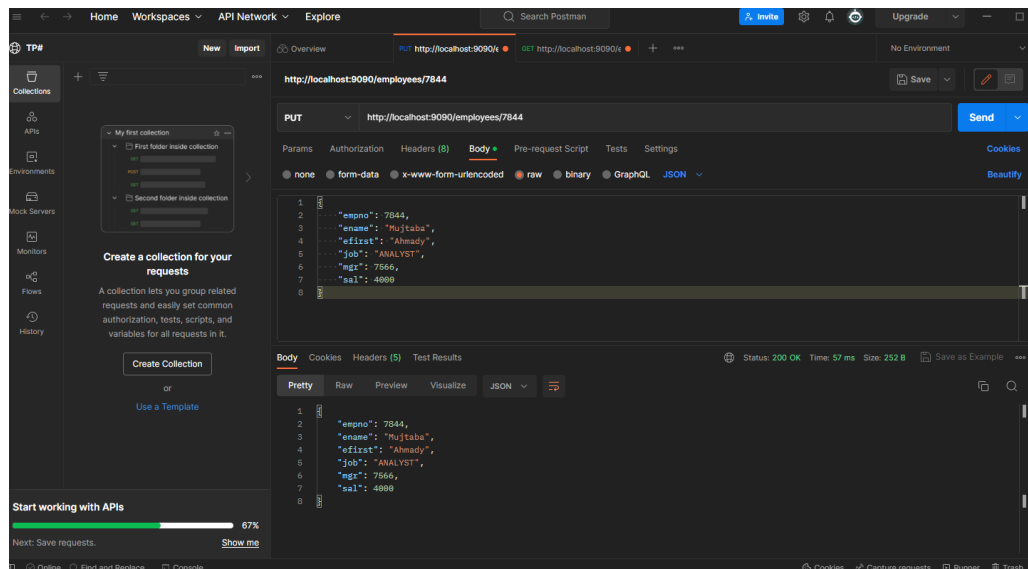
The delete operation ran successfully and currently we can see instead of 14 emp we have 13 emp



The screenshot shows a web browser window with a tab titled "DIP4.sql". The address bar shows "Welcome Page". The main content area displays a SQL query: `select * from emp;`. Below the query, the "Query Result" section shows "All Rows Fetched: 13 in 0.013 seconds". The result is a table with 13 rows and 12 columns: EMPNO, ENAME, EFIRST, JOB, MGR, HIREDATE, SAL, COMM, TEL, DEPTNO, and MOBILE_NUM.

	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

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



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

Worksheet: Query Builder

```

ALTER TABLE EMP
DROP COLUMN DEPTNO;

select * from EMP;

commit;

```

Script Output x Query Result x

SQL | All Rows Fetched: 13 in 0.009 seconds

	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