

Lab Assignment No-08

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Grade :	

1. What is the procedure? And why is it used?

Ans:

A stored procedure is used to retrieve data, modify data, and delete data in a database table. You don't need to write a whole SQL command each time you want to insert, update or delete data in an SQL database. A stored procedure is a precompiled set of one or more SQL statements which perform some specific task.

2. Create a procedure called ADD_JOB procedure to insert a new job into the JOBS table. Provide the ID and title of the job, using two parameters.

Ans:

```
1 CREATE TABLE JOBS
2 (
3     JOB_ID VARCHAR2(100),
4     JOB_TITLE VARCHAR2(100)
5 )
```

Table created.

```
1 CREATE PROCEDURE ADD_JOB (JOB_ID IN VARCHAR2, JOB_TITLE IN VARCHAR2)
2 AS
3 BEGIN
4     INSERT INTO JOBS VALUES (JOB_ID, JOB_TITLE);
5 END;
```

Procedure created.

```
1 EXEC ADD_JOB ('IT_DBA', 'EMPLOYEE')
```

Statement processed.

```
1 SELECT * FROM JOBS
```

JOB_ID	JOB_TITLE
IT_DBA	EMPLOYEE

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3. Compile the code, and invoke the procedure with IT_DBA as job ID and Database Administrator as job title. Query the JOBS table to view the results.

Ans:

```
1 EXEC ADD_JOB ('IT_DBA', 'DATABASE ADMINISTRATOR')
```

Statement processed.

```
1 SELECT * FROM JOBS
```

JOB_ID	JOB_TITLE
IT_DBA	EMPLOYEE
IT_DBA	DATABASE ADMINISTRATOR

[Download CSV](#)
2 rows selected.

4. Invoke the procedure again, passing a job ID of ST_MAN and job title of Stock Manager. What happens and why?

Ans:

```
1 EXEC ADD_JOB ('ST_MAN ', 'Stock Manager')
```

Statement processed.

```
1 SELECT * FROM JOBS
```

JOB_ID	JOB_TITLE
ST_MAN	Stock Manager
IT_DBA	EMPLOYEE
IT_DBA	DATABASE ADMINISTRATOR

[Download CSV](#)
3 rows selected.

JOB ID of ST_MAN and JOB TITLE of Stock Manager gets added to the table JOBS as the PROCEDURE ADD_JOB takes in these inputs and inserts them into the table JOBS

5. Create a procedure called QUERY_EMP to query the EMPLOYEES table, retrieving the salary and job ID for an employee when provided with the employee ID.

Ans:

```
1 CREATE OR REPLACE PROCEDURE print_emp_data(  
2     in_emp_id NUMBER  
3 )  
4 IS  
5     out_sal employees.salary%TYPE;  
6     out_id employees.job_id%TYPE;  
7 BEGIN  
8     SELECT salary, job_id  
9     INTO out_sal, out_id  
10    FROM employees  
11    WHERE employee_id = in_emp_id;  
12    dbms_output.put_line(out_sal || ' ' || out_id);  
13 END;
```

Procedure created.

```
1 EXEC print_emp_data(100)  
2 EXEC print_emp_data(149)
```

Statement processed.
24000 AD_PRES

Statement processed.
10500 SA_MAN