# CO2 Lab Assignments Procedures and Functions

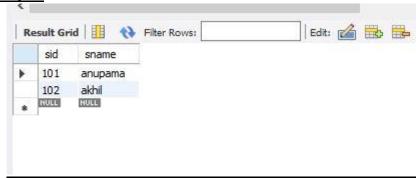
Aim: Given an integer i, write a PL/SQL procedure to insert the tuple (i, 'xxx') into a given relation
 Hint: CREATE TABLE T2 (a INTEGER, b CHAR(10));

```
Script
```

```
use p1;
call insertto(101);
call insertto(102);
select * from student;
CREATE DEFINER='root'@'localhost' PROCEDURE 'insertto'(rollno int)
BEGIN
    declare
    name varchar(20);
    if(rollno=101)
           then set name='anupama';
           insert into student(sid,sname)values(rollno,name);
    end if;
    if(rollno=102)
           then set name='akhil';
           insert into student(sid,sname)values(rollno,name);
    end if;
```

**END** 

**Output** 



2. **Aim:** Write a PL/SQL block to calculate the incentive of an employee whose ID is 110

#### **Script**

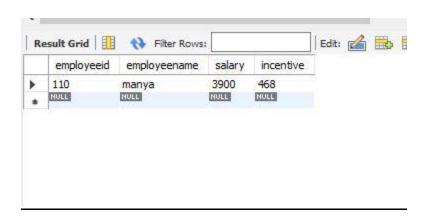
```
USE employee;
select * from emp;
call ins (110,"manya",3900);

CREATE DEFINER=`root`@`localhost` PROCEDURE `inserts`(id int,name varchar(20),salary int)
BEGIN

declare
incent int;
if(id=110)
then set incent=salary*0.12;
insert into emp(EMPLOYEEID,EMPLOYEENAME,SALARY,INCENTIVE)
values(id,name,salary,incent);
end if;

END
```

## <u>Output</u>



3. <u>AIM</u>: Create the Book database and do the following: (Consider the attributes based on the question given)

book(book\_name, author\_name, price,quantity)

- a. Write a query to update the quantity by double in the table book.
- b. List all the book\_name whose price is greater than those of book named"Database for Dummies"
- c. Retrieve the list of author\_name whose first letter is 'a' along with the book name and price (Explore more about *Like* keyword)
- d. Write a PL/SQL Procedure to find the total number of books of same author

#### Script

create database book;
use book;

create table book\_info(book\_name varchar(30),author\_name varchar(30),price int,quantity int);

```
insert into book_info(book_name, author_name, price,quantity) values('Database for Dummies','Avi Silberschatz',500,2); insert into book_info(book_name, author_name, price,quantity) values('Azadi','Arundati Roy',600,2); insert into book_info(book_name, author_name, price,quantity) values('An era of darkness','Shashi Tharoor',400,2); insert into book_info(book_name, author_name, price,quantity) values('Sapiens','Yuval Noah',700,2); insert into book_info(book_name, author_name, price,quantity) values('Five Point Someone','Chetan Bhagat',500,2); insert into book_info(book_name, author_name, price,quantity) values('God of Small Things','Arundati Roy',500,3);
```

select \* from book\_info;

- a) update book\_info set quantity = 2\* quantity where quantity>0;
- b) select book\_name from book\_info where price>( select price from book\_info where book\_name="Database for Dummies");
- c) select author\_name from book\_info where author\_name like "a%";

#### **Output**







- 4. AIM: Create the Company database with the following tables and do the following:

  Administration (employee\_salary, development \_cost, fund\_ amount,
  turn\_over,bonus)

  Emp details (emp no, emp name, DOB, address, doj, mobile no, dept no, salary).
  - a. Calculate the total and average salary amount of the employees of each department.
  - b. Display total salary spent for employees.
  - c. Develop a PL/SQL function to display total fund\_amount spent by the administration department

#### **Script**

create database Company;

use company;

create table Administration(employee\_salary int,development\_cost int,fund\_amount int, turn\_over int,bonus int);

create table Emp\_details(emp\_no int,emp\_name varchar(20),DOB date,address varchar(200), doj date,mobile no varchar(11),dept no int,salary int);

show tables;

INSERT INTO Administration(employee\_salary,development\_cost,fund\_amount, turn\_over, bonus)VALUES(60000,4000,45000,50000,3000);

INSERT INTO Administration(employee\_salary,development\_cost,fund\_amount,turn\_over, bonus) VALUES(70000,5500,55000,100000,4000);

INSERT INTO Administration(employee\_salary,development\_cost,fund\_amount,turn\_over, bonus) VALUES(80000,5900,56000,100000,5000);

INSERT INTO Administration(employee\_salary,development\_cost,fund\_amount,turn\_over, bonus) VALUES(90000,6500,67000,250000,6000);

INSERT INTO Administration(employee\_salary,development\_cost,fund\_amount,turn\_over, bonus) VALUES(100000,7500,77000,270000,7000);

INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no,salary) VALUES(101,'Amritha','2000-05-02','ABC','2021-04-01','8094352453',201,60000);

INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no, salary) VALUES(101, 'Suraj', '1999-05-02', 'XYZ', '2021-04-01', '8094351111', 202, 70000);

INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no, salary) VALUES(101, 'Rohini', '2001-05-02', 'PQR', '2022-05-11', '8094442453', 203, 80000);

INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no, salary) VALUES(101,'Anu','1998-05-02','LMN','2020-06-21','8094456453',201,90000);

INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no, salary) VALUES(101,'Karthika','1997-05-02','UVW','2019-08-11','9094352453',204,100000);

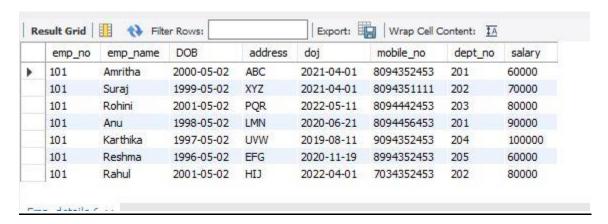
INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no, salary) VALUES(101, 'Reshma', '1996-05-02', 'EFG', '2020-11-19', '8994352453', 205, 60000);

INSERT INTO Emp\_details(emp\_no, emp\_name, DOB, address, doj, mobile\_no, dept\_no, salary) VALUES(101, 'Rahul', '2001-05-02', 'HIJ', '2022-04-01', '7034352453', 202, 80000);

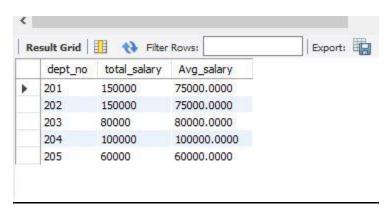
select \* from Emp details;

- a) select dept\_no,sum(salary) as total\_salary ,avg(salary) as Avg\_salary from Emp\_details group by dept\_no;
- **b)** select sum(salary) as total from Emp details;

### **Output**



#### a)



#### b)

