GROUP : 1.9

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DATABASE : COMPETITIVE_PROGRAMMING_PLATFORM

Console Application

```
#include<string.h>
#include<stdlib.h>
#include<stdio.h>
EXEC SQL INCLUDE sqlca;
EXEC SQL WHENEVER SQLERROR sqlprint;

void execute(){

	int no,ex=0;
	while(1){

	  printf("1- Query1 -> Print the Username , First Name , Last Name of all the
Users\n");
	  printf("2- Query2 -> Print the total number of Users on the platform\n");
	  printf("9 -> To Exit");
	  printf("-------------------Please enter the Query number to execute the Query-----
-------------\n");
	  scanf("%d",&no);
	  switch(no){

		case 1:
			{
			EXEC SQL BEGIN DECLARE SECTION;
				char max[10];
				int total_users;
			EXEC SQL END DECLARE SECTION;
			EXEC SQL CONNECT TO
COMPETITIVE_PROGRAMMING_PLATFORM@localhost:5433 USER postgres
USING raghav;

			EXEC SQL select language , count  into :max ,:total_users from
(select language , count (handle) from submissions group by language order by
count desc ) as e limit '1';
```

```
                        printf("Most famous language is %s an it is used by
%d\n",max,total_users);
                        EXEC SQL COMMIT;
                        EXEC SQL DISCONNECT;
                        break;

                        }
              case 2:
                 EXEC SQL CONNECT TO
COMPETITIVE_PROGRAMMING_PLATFORM@localhost:5433 USER postgres
USING raghav;

                 EXEC SQL select count(handle) into :total from users;

                 printf("\n\nTotal number of users who have signed up-- \n \t on our
ONLINE_COMPETITIVE_PLATFORM are:: %d\n",total);

                 EXEC SQL COMMIT;
                EXEC SQL DISCONNECT;
                break;

            case 9:
                ex = 1;
                 break;
            default:
                printf("Sorry wrong Input , try again\n");

        }
        if(ex==1){
            break;
     }
  }
  return;
}



void update()
{
     EXEC SQL BEGIN DECLARE SECTION;
     int CID;
     EXEC SQL END DECLARE SECTION;
     printf(“Insert contest id :  “);
     scanf(“%d”,&CID);
     EXEC SQL CONNECT TO
COMPETITIVE_PROGRAMMING_PLATFORM@localhost:5433 USER postgres
USING raghav;

     EXEC SQL update QUESTIONS SET PRACTICE_SET_STATUS=’1’ WHERE
CONTEST_ID = :CID;
```

```
	EXEC SQL COMMIT;
	printf("Update done..\n");

	EXEC SQL COMMIT;
	EXEC SQL DISCONNECT;
	return;
}


void delete()
{
	EXEC SQL BEGIN DECLARE SECTION;
	int con = 123;
	char cid = 'B';
	EXEC SQL END DECLARE SECTION;


	EXEC SQL CONNECT TO
COMPETITIVE_PROGRAMMING_PLATFORM@localhost:5433 USER postgres
USING raghav;
	EXEC SQL delete from questions where question_id=:cid and contest_id=:con;

	printf("Deletion Done\n");

	 EXEC SQL COMMIT;
	 EXEC SQL DISCONNECT;
	 return;
}


void insert()
{
	EXEC SQL BEGIN DECLARE SECTION;
	char *fol1 = "appurva21";
	char *fol2 = "eLEMENT1996";
	EXEC SQL END DECLARE SECTION;

	EXEC SQL CONNECT TO
COMPETITIVE_PROGRAMMING_PLATFORM@localhost:5433 USER postgres
USING raghav;
	EXEC SQL EXECUTE “insert into follows(follower,following) VALUES (fol1,fol2);
	printf("Insertion Done\n");
	EXEC SQL COMMIT;
	EXEC SQL DISCONNECT;
	return;
}


int main()
{
	int ch,ex=0;
```

```
	printf("----------WELCOME TO ONLINE_CODING_PLATFORM----------
\n\n\n");

	printf("Following are our Users\n");
	EXEC SQL BEGIN DECLARE SECTION;

		char query1[100];
		char *name;
		char first_name[100];
		char last_name[100];
	 EXEC SQL END DECLARE SECTION;
	 EXEC SQL CONNECT TO
COMPETITIVE_PROGRAMMING_PLATFORM@localhost:5433 USER postgres
USING raghav;

	 sprintf(query1 , "select handle , first_name , last_name from users");

	 EXEC SQL PREPARE s_statement FROM :query1;
	 EXEC SQL DECLARE c_statement CURSOR FOR s_statement;
	 EXEC SQL OPEN c_statement;
	 char *s1="Username",*s2="First Name",*s3="Last Name";

	 printf("%s %25s %25s\n\n",s1,s2,s3);

	 while(sqlca.sqlcode==0){
	     EXEC SQL FETCH IN c_statement INTO :name,:first_name,:last_name;
	     printf("%1.10s %25.10s %28.10s \n",name,first_name,last_name);
	 }


	EXEC SQL CLOSE c_statement;
	EXEC SQL COMMIT;
	EXEC SQL DISCONNECT;
	printf("\n\n\n");


	while(1){
	  printf("Press 1 to Execute Query\n");
	  printf("Press 2 to update query\n");
	  printf("Press 3 to delete query\n");
	  printf("Press 4 to insert query\n");
	  printf("Press 9 to exit\n");
	  scanf("%d",&ch);
	  switch(ch)
	  {
	     case 1:
		execute();
		break;
	     case 2:
		update();
```

```
                break;
            case 3:
                delete();
                break;
            case 4:
                insert();
               break;
            case 9:
                ex = 1;
                break;
            default:
                printf("Sorry Wrong choice\n");

        }
        if(ex==1){
            break;
        }
    }
    return 0;
}
```