ADBMS assignment 3

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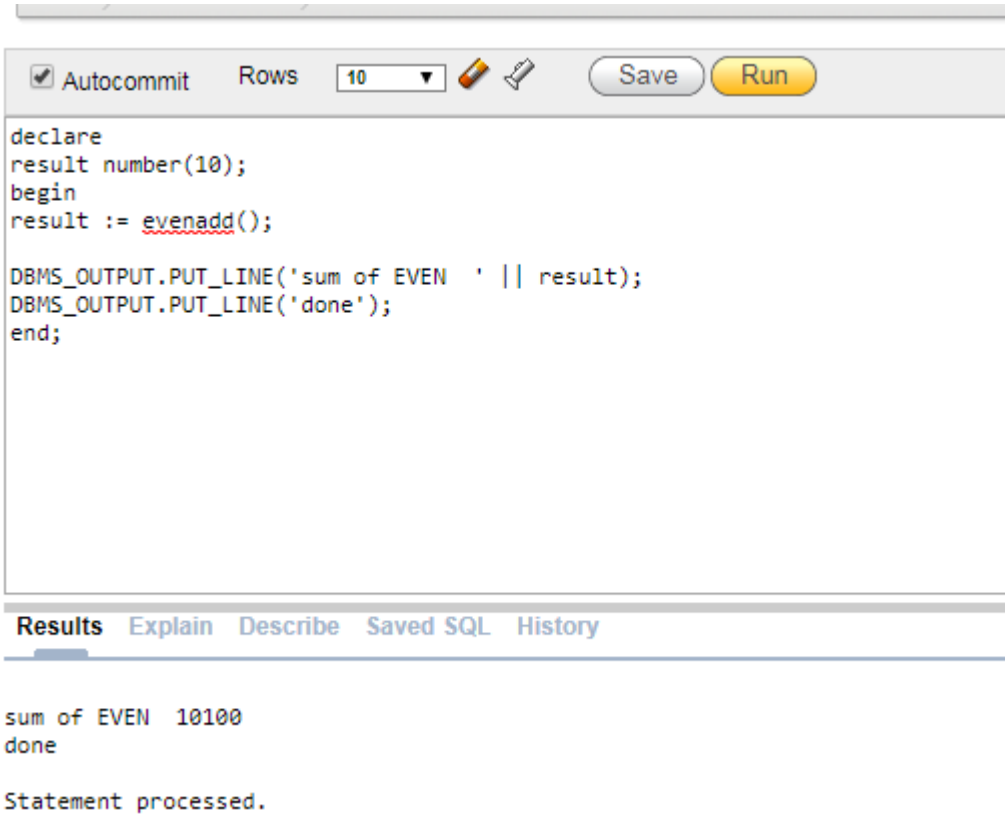
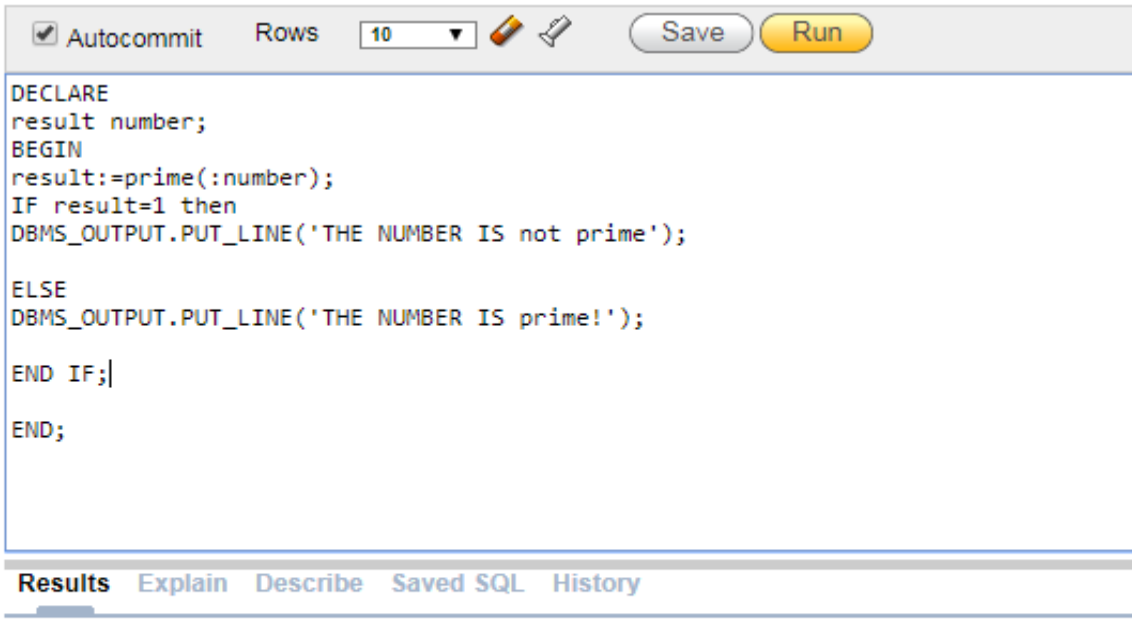
Write and implement PL/SQL functions.

1. Write a PL/SQL function to find the sum of the 1st 100 even numbers.

```
create or replace function evenadd
return number
is
result number :=0;
begin
for num in 1..200 loop
IF mod(num,2)=0 then
result := result+num;
END IF;
end loop;
return result;
end;
```



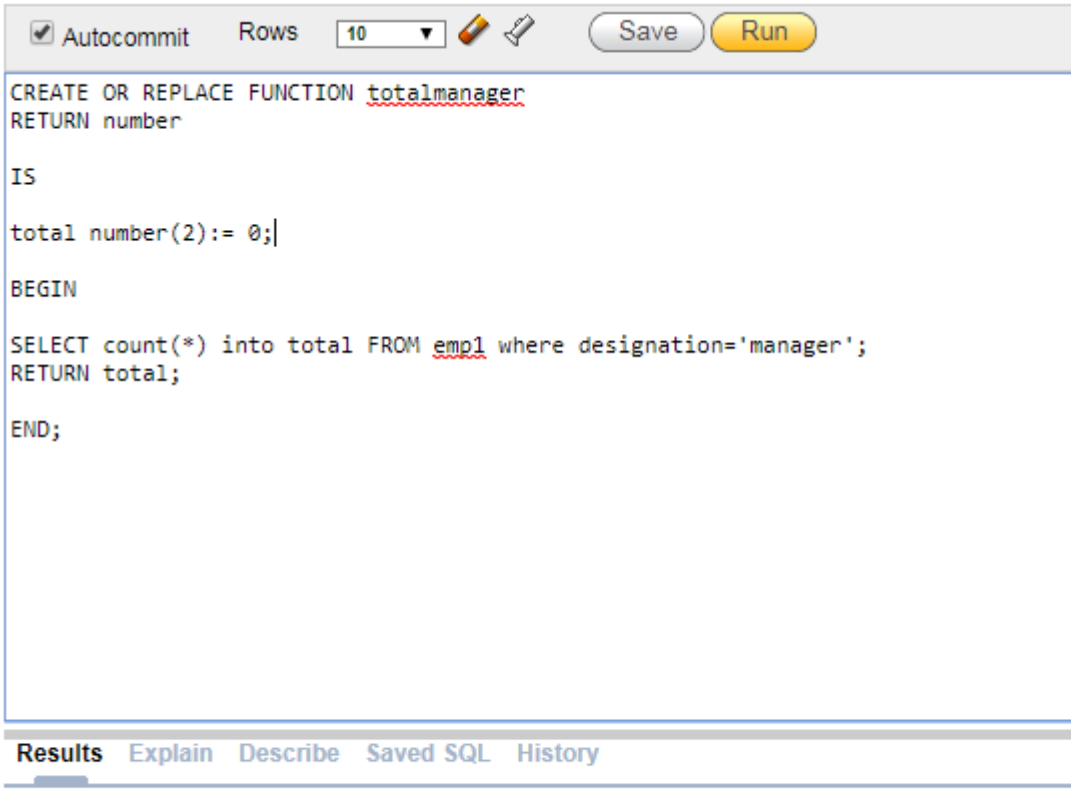
2. Write a PL/SQL function to check if a number is prime or notices.

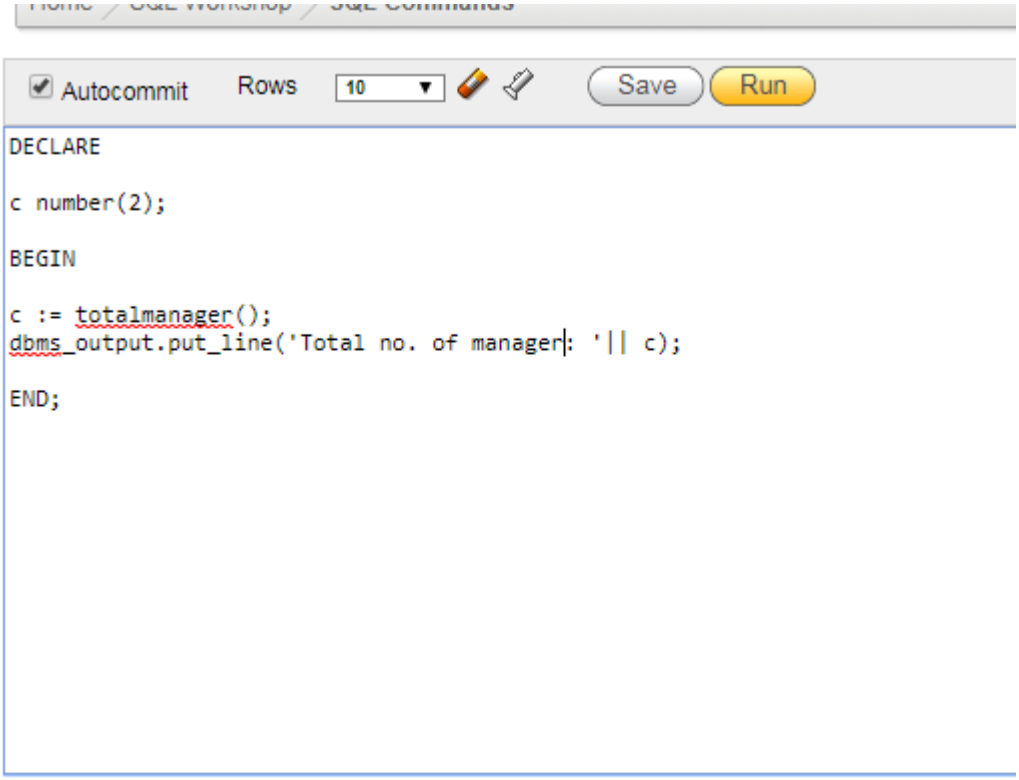


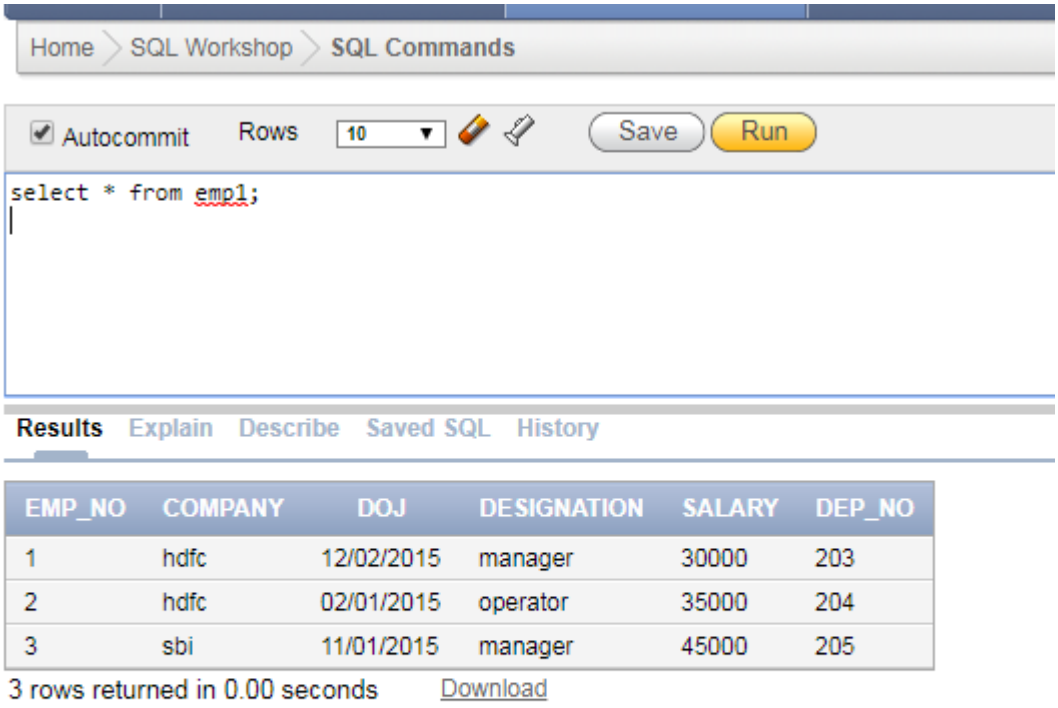

```
THE NUMBER IS not prime
DONE!

Statement processed.
```

3. **Write PL/SQL function to find all the managers. Consider the schema Emp(Emp_no, Company, DOJ, Designation, Salary, Dep_No)**
   create table emp1(emp_no int , Company varchar2(10), DOJ date, Designation varchar2(10),Salary int, Dep_No int,primary key(emp_no));
   insert into emp1(emp_no , Company , DOJ , Designation,Salary , Dep_No

) values(3, 'sbi','11/01/2015','manager',45000,205);




Autocommit
Rows
10
Save
Run
DECLARE
c number(2);
BEGIN
c := totalmanager();
dbms_output.put_line('Total no. of manager: '|| c);
END;
Results
Explain
Describe
Saved SQL
History
Total no. of manager: 2
Statement processed.



EMP_NO	COMPANY	DOJ	DESIGNATION	SALARY	DEP_NO
1	hdfc	12/02/2015	manager	30000	203
2	hdfc	02/01/2015	operator	35000	204
3	sbi	11/01/2015	manager	45000	205

3 rows returned in 0.00 seconds Download

4. Create a function to find number of employees earning salary more than 10000 Rs.

```
create or replace function emp_sal
return number
is
total number;
begin
select count(*) into total from emp where salary>10000;
return total;
end;
```

EMP_NO	COMPANY	DOJ	DESIGNATION	SALARY	DEP_NO
1	abc	01/01/0019	manager	1000000	1
2	def	02/01/0019	engineer	100000	2
3	abc	02/01/0019	hr	10000	3
4	def	02/01/0019	manager	1000000	1

4 rows returned in 0.00 seconds Download

```
declare
ans number;
begin
ans:=emp_sal();
dbms_output.put_line('answer is '||ans);
end;
```

Results Explain Describe Saved SQL His

```
answer is 3

Statement processed.
```

5. Write a PL/SQL function to display highest paid employee name.

```
create or replace function emp_maxSal
return number
is
total number;
begin
select emp_no into total from emp where salary=(select max(salary) from emp);
return total;
end;
```

EMP_NO	COMPANY	DOJ	DESIGNATION	SALARY	DEP_NO
1	abc	01/01/0019	manager	1000000	1
2	def	02/01/0019	engineer	100000	2
3	abc	02/01/0019	hr	10000	3
4	def	02/01/0019	manager	1000000	1

4 rows returned in 0.00 seconds Download

```
declare
ans number;
begin
ans:=emp_maxSal();
dbms_output.put_line('Emp_no of employee with max salary is '||ans);
end;
```

Results Explain Describe Saved SQL History

```
Emp_no of employee with max salary is  5
```