

User: ABENI

Home > SQL > **SQL Commands**

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```
select * from tab|
```

Results Explain Describe Saved SQL History

no data found

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Home > SQL > SQL Commands

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```
CREATE TABLE Department
( did number(10) not null,
  dname varchar2(50) not null,
  CONSTRAINT did_pk PRIMARY KEY (did,dname)
);
```

Results Explain Describe Saved SQL History

Table dropped.

0.07 seconds

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Home > SQL > SQL Commands

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```
CREATE TABLE Title
(
  tid number(10) not null,
  tname varchar2(50) not null,
  dtid number(10) not null,
  dname varchar2(50),
  CONSTRAINT tid_pk PRIMARY KEY (tid),
  CONSTRAINT fk_title
    FOREIGN KEY (dtid,dname)
    REFERENCES Department(did,dname)
);
```

Results Explain Describe Saved SQL History

Table created.

0.01 seconds

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```
CREATE TABLE Salary
(
  stotal number(10) not null,
  sdate date not null,
  tsid number(10) not null,
  CONSTRAINT sid_pk PRIMARY KEY (stotal),
  CONSTRAINT fk_salary
    FOREIGN KEY (tsid)
    REFERENCES Title(tid)
);
```

Results Explain Describe Saved SQL History

Table created.

0.02 seconds

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```
CREATE TABLE Employee
(
  eid number(10) not null,
  stotal number(10) not null,
  efname varchar2(50) not null,
  elname varchar2(50) not null,
  age number(10) not null,
  CONSTRAINT emp_pk PRIMARY KEY (eid),
  CONSTRAINT fk_employee
    FOREIGN KEY (stotal)
    REFERENCES Salary(stotal)
);
```

Results Explain Describe Saved SQL History

Table created.

0.04 seconds

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Home > SQL > SQL Commands

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```
ALTER TABLE Employee  
ADD CONSTRAINT fk_title  
FOREIGN KEY (etid)  
REFERENCES Title(tid);
```

Results Explain Describe Saved SQL History

Table altered.

0.06 seconds

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Home > SQL > SQL Commands

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```
select * from tab|
```

Results Explain Describe Saved SQL History

TNAME	TABTYPE	CLUSTERID
EMPLOYEE	TABLE	-
TITLE	TABLE	-
DEPARTMENT	TABLE	-
SALARY	TABLE	-
BIN\$0bTwp79RwuaJ1eh/HBpJQ==S0	TABLE	-

5 rows returned in 0.00 seconds

[CSV Export](#)

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Home > SQL > SQL Commands

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```
INSERT ALL  
  into department values (1,'Production')  
  into department values (2,'Purchasing')  
  into department values (3,'Marketing')  
  into department values (4,'Accounting and Finance')  
  into department values (5,'Research and Development')  
  into department values (6,'Human Resource Management')  
SELECT * FROM dual;
```

Results Explain Describe Saved SQL History

6 row(s) inserted.

0.00 seconds

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Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```
INSERT ALL
  into title values (1,'Accountant',4,'')
  into title values (2,'Marketing Manager',3,'')
  into title values (3,'HR Manager',6,'')
  into title values (4,'Finance Manager',4,'')
  into title values (5,'Buisness Analyst',5,'')
  into title values (6,'Product Manager',1,'')
SELECT * FROM dual;
```

Results Explain Describe Saved SQL History

6 row(s) inserted.

0.00 seconds

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Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```
INSERT ALL
  into salary values (10000,TO_DATE('02/03', 'mm/dd'),1)
  into salary values (20000,TO_DATE('04/03', 'mm/dd'),2)
  into salary values (30000,TO_DATE('03/03', 'mm/dd'),3)
  into salary values (40000,TO_DATE('05/03', 'mm/dd'),4)
  into salary values (50000,TO_DATE('01/03', 'mm/dd'),5)
  into salary values (60000,TO_DATE('02/03', 'mm/dd'),6)
SELECT * FROM dual;
```

Results Explain Describe Saved SQL History

6 row(s) inserted.

0.00 seconds

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Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```
INSERT ALL
  into employee values (1,10000,'Abebe','Meshesha',45,1)
  into employee values (2,20000,'Belay','Mengesha',40,2)
  into employee values (3,30000,'Fitsum','Nigatu',41,3)
  into employee values (4,40000,'Netsanet','Admassu',29,4)
  into employee values (5,50000,'Kidist','Belayneh',23,5)
  into employee values (6,60000,'Mekonin','Ashagre',33,6)
  into employee values (7,10000,'Mesfin','Shimeles',30,1)
  into employee values (8,20000,'Worku','Abayneh',52,2)
  into employee values (9,30000,'Daba','Debele',22,3)
  into employee values (10,40000,'Lemma','Abdissa',49,4)
  into employee values (11,50000,'Eden','Melaku',41,5)
  into employee values (12,60000,'Shibeshi','Mekuria',42,6)
  into employee values (13,10000,'Ruta','Asgedom',62,1)
  into employee values (14,20000,'Tsihon','Dawit',55,2)
  into employee values (15,30000,'Lidiya','Mehari',25,3)
SELECT * FROM dual;
```

Results Explain Describe Saved SQL History

15 row(s) inserted.

0.00 seconds

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Home > SQL > SQL Commands

☒ Autocommit Display 15 ▼

```
insert all
into employee values(1,10000,'Abebe','Meshesha',45,1,4,'')
into employee values(2,20000,'Belay','Mengesha',40,2,3,'')
into employee values(3,30000,'Fitsum','Nigatu',41,3,6,'')
into employee values(4,40000,'Netsanet','Admassu',29,4,4,'')
into employee values(5,50000,'Kidist','Belayneh',23,5,5,'')
into employee values(6,60000,'Mekonin','Ashagre',33,6,1,'')
into employee values(7,10000,'Mesfin','Shimeles',30,1,4,'')
into employee values(8,20000,'Worku','Abayneh',52,2,3,'')
into employee values(9,30000,'Daba','Debele',22,3,6,'')
into employee values(10,40000,'Lemma','Abdissa',49,4,4,'')
into employee values(11,50000,'Eden','Melaku',41,5,5,'')
into employee values(12,60000,'Shibeshi','Mekuria',42,6,1,'')
into employee values(13,10000,'Ruta','Asgedom',62,1,4,'')
into employee values(14,20000,'Tsihon','Dawit',55,2,3,'')
into employee values(15,30000,'Lidiya','Mehari',25,3,6,'')
select * from dual;
```

Results Explain Describe Saved SQL History

15 row(s) inserted.

0.00 seconds

☒ Autocommit Display 15 ▼

```
DECLARE

cursor selectDname is select did,dname from Department order by dname;
cursor Employees is select edid,efname from Employee order by efname;
counter number;
ordering number:=0;

PROCEDURE pro_Department_report IS

BEGIN
  FOR dept in selectDname LOOP
    dbms_output.put_line('Department: '|| dept.dname);
    select count(eid) into counter from Employee where edid=dept.did;
    dbms_output.put_line('Total number of Employees: '|| counter);
    dbms_output.put_line('-----');
    FOR emp in Employees LOOP
      if(emp.edid=dept.did) then
        ordering:=ordering+1;
        dbms_output.put_line(ordering||'. '|| emp.efname);
      end if;
    END LOOP;
    ordering:=0;
    dbms_output.put_line('');
  END LOOP;
END;

BEGIN
  pro_Department_report();
END
```

Department: Accounting and Finance

Total number of Employees: 5

1. Abebe
2. Lemma
3. Mesfin
4. Netsanet
5. Ruta

Department: Human Resource Management

Total number of Employees: 3

1. Daba
2. Fitsum
3. Lidiya

Department: Marketing

Total number of Employees: 3

1. Belay
2. Tsihon
3. Worku

Department: Production

Total number of Employees: 2

1. Mekonin
2. Shibeshi

Department: Purchasing

Total number of Employees: 0

Department: Research and Development

Total number of Employees: 2

1. Eden
2. Kidist

Statement processed.

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```
DECLARE

cursor selectDname is select did,dname from Department order by dname;
cursor Employees is select edid,efname,stotal from Employee order by efname;
counter number;
ordering number:=0;

PROCEDURE pro_employee_stats IS

BEGIN
  dbms_output.put_line('Employee Name Salary');
  dbms_output.put_line('-----');
  FOR emp in Employees LOOP
    dbms_output.put_line(emp.efname || ' ' || emp.stotal);
  END LOOP;
END;

BEGIN
  pro_employee_stats ();
END
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Employee Name Salary

Abebe	10000
Belay	20000
Daba	30000
Eden	50000
Fitsum	30000
Kidist	50000
Lemma	40000
Lidiya	30000
Mekonin	60000
Mesfin	10000
Netsanet	40000
Ruta	10000
Shibeshi	60000
Tsihon	20000
Worku	20000

Statement processed.

0.00 seconds

User: ABENI

Home > SQL > SQL Commands

☒ Autocommit Display 15 ▼

```
DECLARE
cursor titles is select tid,tname,dtid from Title;
cursor salaries is select tsid,stotal from Salary;
cursor depts is select did,dname from Department;
empID number;
titleID number;
edname varchar2;
stotal number;
eid number;
ordering number:=0;
lessThan21 Exception;

PROCEDURE pro_add(efname IN varchar2,elname IN varchar2,age IN number,etitle IN varchar2,edid IN number) IS

BEGIN
if(age<21) then
  raise lessThan21;
else
  FOR title in titles LOOP
    if(title.tname=etitle) then
      titleID:=title.tid;
      edid:=title.dtid;
      etitle:=title.tname;
      FOR salary in salaries LOOP
        if (salary.tsid=title.tid) then
          stotal:=salary.stotal;
        else
          dbms_output.put_line('Inappropriate salary for this title.');
```


☒ Autocommit Display 15 ▼

```
if(title.tname=etitle) then
  titleID:=title.tid;
  edid:=title.dtid;
  etitle:=title.tname;
  FOR salary in salaries LOOP
    if (salary.tsid=title.tid) then
      stotal:=salary.stotal;
    else
      dbms_output.put_line('Inappropriate salary for this title.');
```

end if;

```
else
  select count(tid) into titleID from title;
  FOR dept in depts LOOP
    if(dept.did=edid) then
      edid:=dept.did;
      edname:=dept.dname;
      insert into title values(titleID+1,etitle,edid,edname);
    else
      dbms_output.put_line('No such department.');
```

end if;

```
END LOOP;
end if;
END LOOP;
select count(eid) into empID from employee;
insert into employee values (empid+1,stotal,efname,elname,age,edid,titleID,edname);
end if;
EXCEPTION
  when lessThan21 then
    dbms_output.put_line('Illegible.' )
END;
BEGIN
  pro_add('Absalat','Lname',24,'Manager',1);
  pro_add('Kidist','Lname',26,'Analyst',4);
END
```

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Home > SQL > SQL Commands

☒ Autocommit Display 15 ▼

```
DECLARE
  cursor empSal select fname,stotal from employee;
FUNCTION calc_avg
  return float IS
  averagesal float;
  maxPaid float;
  minPaid float;

BEGIN
  select MAX(stotal) into maxPaid from Salary;
  select MIN(stotal) into minPaid from Salary;

  dbms output.put line('-----');
  FOR emp in empSal LOOP
    if(emp.stotal=maxPaid) then
      dbms output.put line('Maximum salary paid employee: '||emp.fname);
    elseif (emp.stotal=minPaid) then
      dbms output.put line('Minimum salary paid employee: '||emp.fname);
    end if;
  END LOOP;
  select ROUND(AVG(stotal),2) into averagesal from salary;
  return averagesal;
END;
BEGIN
  dbms output.put line('Avergae Salary: '|| calc_avg());
END
|
```