

# DBMS Lab

## Assignment 1

```
--Q1
create table Student(
Rno int primary key,
SName varchar(20),
DOB date,
Gender varchar(1),
SClass int,
College varchar(50),
City varchar(20),
Marks number(5,2)
);

--Q2
insert into Student values(1, 'Aaditya', '01-JUN-2002', 'M', '4', 'VIT', 'Vellore', '14.00');
insert into Student values(2, 'Ayan', '13-NOV-2002', 'M', '5', 'NSIT', 'Delhi', '59.00');
insert into Student values(3, 'Harsh', '21-JAN-2003', 'M', '5', 'NSIT', 'Delhi', '21.00');
insert into Student values(4, 'Nikhil', '19-OCT-2001', 'M', '8', 'TIET', 'Patiala', '60.00');
insert into Student values(5, 'Yashvardhan', '22-OCT-2002', 'M', '8', 'TIET', 'Amritsar', '54.00');
```

Live SQL

SQL Worksheet

```
--Q1
create table Student(
Rno int primary key,
SName varchar(20),
DOB date,
Gender varchar(1),
SClass int,
College varchar(50),
City varchar(20),
Marks number(5,2)
);

--Q2
insert into Student values(1, 'Aaditya', '01-JUN-2002', 'M', '4', 'VIT', 'Vellore', '14.00');
insert into Student values(2, 'Ayan', '13-NOV-2002', 'M', '5', 'NSIT', 'Delhi', '59.00');
insert into Student values(3, 'Harsh', '21-JAN-2003', 'M', '5', 'NSIT', 'Delhi', '21.00');
insert into Student values(4, 'Nikhil', '19-OCT-2001', 'M', '8', 'TIET', 'Patiala', '60.00');
insert into Student values(5, 'Yashvardhan', '22-OCT-2002', 'M', '8', 'TIET', 'Amritsar', '54.00');

Table created.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.
```

```
--Q3
Select * from Student

--Q4
describe Student
```

**Live SQL**

**SQL Worksheet**

Feedback Help yarora\_be20@thapar.edu

Clear Find Actions Save Run

RNO	SNAME	DOB	GENDER	SCLASS	COLLEGE	CITY	MARKS
1	Aaditya	01-JUN-02	M	4	VIT	Vellore	14
2	Ayan	13-NOV-02	M	5	NSIT	Delhi	59
3	Harsh	21-JAN-03	M	5	NSIT	Delhi	21
4	Nikhil	19-OCT-01	M	8	TIET	Patiala	60
5	Yashvardhan	22-OCT-02	M	8	TIET	Amritsar	54

Download CSV  
5 rows selected.

TABLE STUDENT

Column	Null?	Type
RNO	NOT NULL	NUMBER
SNAME	-	VARCHAR2(20)
DOB	-	DATE
GENDER	-	VARCHAR2(1)
SCLASS	-	NUMBER
COLLEGE	-	VARCHAR2(50)
CITY	-	VARCHAR2(20)
MARKS	-	NUMBER(5,2)

Download CSV  
8 rows selected.

```
--Q5
select Rno, SName, SClass from Student where city='Patiala'

--Q6
Select * from Student order by marks
```

**Live SQL**

**SQL Worksheet**

Feedback Help yarora\_be20@thapar.edu

Clear Find Actions Save Run

RNO	SNAME	SCLASS
4	Nikhil	8

Download CSV  
5 rows selected.

RNO	SNAME	DOB	GENDER	SCLASS	COLLEGE	CITY	MARKS
1	Aaditya	01-JUN-02	M	4	VIT	Vellore	14
3	Harsh	21-JAN-03	M	5	NSIT	Delhi	21
5	Yashvardhan	22-OCT-02	M	8	TIET	Amritsar	54
2	Ayan	13-NOV-02	M	5	NSIT	Delhi	59
4	Nikhil	19-OCT-01	M	8	TIET	Patiala	60

Download CSV  
5 rows selected.

```
--Q7
update Student
set Marks=89
where Rno=5

--Q8
insert into Student values(9, 'Arshiya', '16-NOV-2002', 'F', '7', 'TIET', 'Chandigarh', '45.00');

update Student
set Sname='Arshia', city='Dehradun'
where Rno=9

select * from Student
```

Live SQL

**SQL Worksheet**

1 row(s) updated.  
1 row(s) inserted.  
1 row(s) updated.

RNO	SNAME	DOB	GENDER	SCLASS	COLLEGE	CITY	MARKS
1	Aaditya	01-JUN-02	M	4	VIT	Vellore	14
2	Ayan	13-NOV-02	M	5	NSIT	Delhi	59
3	Harsh	21-JAN-03	M	5	NSIT	Delhi	21
4	Nikhil	19-OCT-01	M	8	TIET	Patiala	60
5	Yashvardhan	22-OCT-02	M	8	TIET	Amritsar	89
9	Arshia	16-NOV-02	F	7	TIET	Dehradun	45

[Download CSV](#)  
6 rows selected.

```
--Q9
delete from Student
where city='Amritsar'
```

```
--Q10
delete from Student
where marks<30
```

```
Select * from Student
```

Live SQL

**SQL Worksheet**

1 row(s) deleted.  
2 row(s) deleted.

RNO	SNAME	DOB	GENDER	SCLASS	COLLEGE	CITY	MARKS
2	Ayan	13-NOV-02	M	5	NSIT	Delhi	59
4	Nikhil	19-OCT-01	M	8	TIET	Patiala	60
9	Arshia	16-NOV-02	F	7	TIET	Dehradun	45

[Download CSV](#)  
3 rows selected.

## Assignment 2

```
--Q1
create Table Employee(
Empno int primary key,
Ename varchar(20),
Job varchar(20),
Sal Number(9,2),
DeptNo int
);

--Q2
insert into Employee values(1, 'Rakesh', 'Clerk', 30000, 10);
insert into Employee values(2, 'Chaman', 'SalesPerson', 50000, 20);
insert into Employee values(3, 'Aakarsh', 'Clerk', 25000, 50);
insert into Employee values(4, 'Ajay', 'Manager', 70000, 30);
insert into Employee values(5, 'Vijay', 'SalesPerson', 45000, 50);
insert into Employee values(6, 'Chanda', 'Clerk', 28000, 10);
```

```

insert into Employee values(7, 'Brijesh', 'Supervisor', 55000, 70);

--Q3
select Empno, Ename from Employee where DeptNo=10

```

Live SQL

SQL Worksheet

Table created.

1 row(s) inserted.

EMPNO	ENAME
1	Rakesh
6	Chanda

[Download CSV](#)

2 rows selected.

```

--Q4
select Ename from Employee where Job='Clerk' and sal>2000

--Q5
Select Ename, Sal from Employee where job='SalesPerson' or job='Clerk'

--Q6
Select * from Employee where sal>=20000 and sal<=30000

```

Live SQL

SQL Worksheet

ENAME
Rakesh
Aakarsh
Chanda

[Download CSV](#)

3 rows selected.

ENAME	SAL
Rakesh	30000
Chaman	50000
Aakarsh	25000
Vijay	45000
Chanda	28000

[Download CSV](#)

5 rows selected.

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Rakesh	Clerk	30000	10
3	Aakarsh	Clerk	25000	50
6	Chanda	Clerk	28000	10

[Download CSV](#)

3 rows selected.

```

--Q7
Select * from Employee where deptno=10 or deptno=20 or deptno=30

```

```
--Q9
Select deptno, sal from Employee order by deptno, sal DESC
```

The screenshot shows a SQL worksheet interface with two tables displayed.

**Table 1:**

EMPNO	ENAME	JOB	SAL	DEPTNO
1	Rakesh	Clerk	30000	10
2	Chaman	SalesPerson	50000	20
4	Ajay	Manager	70000	30
6	Chanda	Clerk	28000	10

[Download CSV](#)  
4 rows selected.

**Table 2:**

DEPTNO	SAL
10	30000
10	28000
20	50000
30	70000
50	45000
50	25000
70	55000

[Download CSV](#)  
7 rows selected.

```
--Q10
Select Ename from Employee where ename like 'C%'

--Q11
Select Ename from Employee where ename like '%C'

--Q12
Select Ename from Employee where ename like '%a%a%' or ename like '%A%A%'

--Q13
Select Ename from Employee where ename like '_b%'

--Q14
Select Ename from Employee where ename like 'A%' or ename like '%a' or ename like 'a%'
```

The screenshot shows a SQL worksheet interface with three tables displayed.

**Table 1:**

ENAME
Chaman
Chanda

[Download CSV](#)  
2 rows selected.

**Table 2:**

ENAME
Chaman
Aakarsh
Ajay
Chanda

[Download CSV](#)  
4 rows selected.

**Table 3:**

ENAME
Aakarsh
Ajay
Chanda

[Download CSV](#)  
3 rows selected.

# Assignment 3

```
select to_char(sysdate,'day') from dual;
select to_char(sysdate,'mm-year') from dual;
select to_char(sysdate,'ddspth Month Year') from dual;
select to_char(sysdate,'pm') from dual;
select next_day(sysdate,'Friday') from dual;
select round(sysdate,'year') from dual;
select trunc(sysdate,'Year') from dual;
select round(sysdate,'month') from dual;
select trunc(sysdate,'month') from dual;
select to_char(sysdate+3,'Day') from dual;
```

Live SQL

SQL Worksheet

TO\_CHAR(SYSDATE,'DAY')  
sunday  
[Download CSV](#)

TO\_CHAR(SYSDATE,'MM-YYYY')  
03-twenty twenty-two  
[Download CSV](#)

TO\_CHAR(SYSDATE,'DDSPTHMONTHYEAR')  
twentieth March Twenty Twenty-Two  
[Download CSV](#)

TO\_CHAR(SYSDATE,'PM')  
pm  
[Download CSV](#)

NEXT\_DAY(SYSDATE,'FRIDAY')  
25-MAR-22  
[Download CSV](#)

ROUND(SYSDATE,'YEAR')  
01-JAN-22  
[Download CSV](#)

TRUNC(SYSDATE,'YEAR')  
01-JAN-22  
[Download CSV](#)

ROUND(SYSDATE,'MONTH')  
01-APR-22  
[Download CSV](#)

TRUNC(SYSDATE,'MONTH')  
01-MAR-22  
[Download CSV](#)

TO\_CHAR(SYSDATE+3,'DAY')  
Wednesday  
[Download CSV](#)

```
select to_char(doj,'Day') DayOfjoining from em;
select * from em where trim(to_char(doj,'Day'))='Monday';
Select * from em where sysdate-doj<=30;
select * from em where to_char(sysdate,'mm')=to_char(doj,'mm');
```

```

create table tr(tn number(3),dod date,tod timestamp,toa timestamp);
insert into tr values(100,'11-AUG-2017','11-AUG-2017 08:34:00 AM','11-AUG-2017 08:55:00 PM');
insert into tr values(101,'12-AUG-2017','14-AUG-2017 09:34:00 AM','15-AUG-2017 08:55:00 AM');
insert into tr values(102,'31-AUG-2017','31-AUG-2017 10:14:00 AM','31-AUG-2017 12:55:00 PM');
insert into tr values(103,'11-AUG-2017','11-AUG-2017 09:34:00 AM','11-AUG-2017 08:55:00 PM');
insert into tr values(104,'11-AUG-2017','11-AUG-2017 08:34:00 AM','11-AUG-2017 08:55:00 PM');

```

The screenshot shows the Oracle SQL Developer Live Worksheet interface. At the top, there's a toolbar with icons for Feedback, Help, and a user email (yarora\_be20@thapar.edu). Below the toolbar is a header bar with 'Live SQL' and other navigation links. The main area is titled 'SQL Worksheet'. The code from the previous block has been run, and the results are displayed in the worksheet:

```

Table created.

1 row(s) inserted.

```

## Assignment 4

Q1.

1. select chr(65) from dual;
2. select concat('Hello', 'World') from dual;
3. select instr('Hello World', 'World') from dual;
4. select length('Hello World') from dual;
5. select lpad('Hello', 10, '\*') from dual;
6. select ltrim('\*\*\*\*Hello', '\*\*') from dual;
7. select rpad('Hello', 10, '\*') from dual;
8. select rtrim('Hello\*\*\*', '\*\*') from dual;
9. select replace('Bleck Cet', 'e', 'a') from dual;
10. select substr('Hello World', 7, 4) from dual;
11. select initcap('hello world') from dual;
12. select lower('HELLO woRld') from dual;
13. select upper('HELLO woRld') from dual;
14. select translate('BBBBCCDDEFG', 'BCD', 'DEC') from dual;
15. select abs(-31) from dual;
16. select ceil(45.3) from dual;
17. select cos(0) from dual;
18. select exp(1) from dual;
19. select floor(303.32) from dual;
20. select mod(10, 3) from dual;
21. select power(2, 5) from dual;
22. select round(30.56) from dual;
23. select sign(332) from dual;
24. select sqrt(25) from dual;
25. select trunc(25.123) from dual;
26. select sysdate from dual;
27. select add\_months(sysdate, 2) from dual;
28. select last\_day(sysdate) from dual;
29. select months\_between(sysdate, sysdate+60) from dual;
30. select next\_day(sysdate, 'TUESDAY') from dual;
31. select greatest(1, 2, 3, 4, 5) from dual;
32. select least(1, 2, 3, 4, 5) from dual;

Q2. select to\_char(current\_timestamp, 'HH24:MI:SS') from dual;

EMP TABLE:  
Create table emp(

```

id number(6) primary key,
name varchar2(100),
salary number(10),
commission number(10),
hiredate date
);

Q3. select salary+commission from emp;

Q4. insert into emp(id, hiredate) values(10, to_date(2010/09/21, yyyy/mm/dd));

Q5. select * from emp where trim(to_char(hiredate, 'YYYY')) = 1985;

Q6. select * from emp where trim(to_char(date_of_joining, 'YYYY')) = trim(to_char(sysdate, 'YYYY'));

```

## Assignment 5

Useful link for learning about types of Constraints in SQL :

[https://www.w3schools.com/sql/sql\\_constraints.asp#:~:text=SQL%20constraints%20are%20used%20to%20specify%20rules%20for%20the%20data,%20action%2C%20the%20action%20is%20aborted.](https://www.w3schools.com/sql/sql_constraints.asp#:~:text=SQL%20constraints%20are%20used%20to%20specify%20rules%20for%20the%20data,%20action%2C%20the%20action%20is%20aborted.)

```

--Q2
create table dept(
deptno int constraint deptno primary key,
dname varchar(10) constraint dname check(dname in ('acc','comp','elect'))
);

--Q1
create table emp(
empno number(10) constraint empno primary key,
ename varchar(20) constraint ename unique,
job varchar(20) constraint job check(job in ('prof','ap','lect')),
sal number(10) constraint sal not NULL,
deptno number(5) constraint deptno_emp references dept(deptno)
);

--Q3
create table S(
sno number(10) constraint sno primary key,
sname varchar(20),
city varchar(20)
);

--Q4
create table P(
pno number(10) constraint pno primary key,
pname varchar(20),
color varchar(20)
);

--Q5
create table J(
jno number(10) constraint jno primary key,
jname varchar(20),
city varchar(20)
);

--Q6
create table SPJ(
sno number(10) references S(sno),
pno number(10) references P(pno),
jno number(10) references J(jno),
qty number(10),
constraint spj_pk primary key(sno,pno,jno)
);

```

```
--Q7
insert into dept values(1,'acc');
insert into dept values(2,'comp');
insert into dept values(3,'elect');
insert into emp values(100,'Yashvardhan','prof',100000,1);
insert into emp values(101,'Sunidhi','lect',90000,2);
insert into emp values(102,'Palash','ap',88000,3);
insert into emp values(103,'Taran','prof',100000,1);
insert into S values(91,'Aman','Lucknow');
insert into S values(92,'Mehar','Patiala');
insert into S values(93,'Vibhav','Noida');
insert into P values(81,'box','yellow');
insert into P values(82,'ball','red');
insert into P values(83,'stick','green');
insert into J values(71,'AR','Bangalore');
insert into J values(72,'VR','Mumbai');
insert into J values(73,'MixedR','Delhi');
insert into SPJ values(91,81,71,4);
insert into SPJ values(92,82,72,6);
insert into SPJ values(93,83,73,7);
```

Live SQL

SQL Worksheet

Feedback Help yarora\_be20@thapar.edu

Clear Find Actions Save Run

```
Table created.
Table created.
Table created.
Table created.
Table created.
Table created.
```

Live SQL

SQL Worksheet

Feedback Help yarora\_be20@thapar.edu

Clear Find Actions Save Run

```
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
```

## Assignment 6

```
--Q1
Desc dept;
Desc emp;
Desc S;
Desc P;
Desc J;
Desc SPJ;
```

Live SQL

SQL Worksheet

Actions: Clear Find Save Run

TABLE DEPT

Column	Null?	Type
DEPTNO	NOT NULL	NUMBER
DNAME	-	VARCHAR2(6)

[Download CSV](#)

2 rows selected.

TABLE EMP

Column	Null?	Type
EMPNO	NOT NULL	NUMBER
ENAME	-	VARCHAR2(20)
JOB	-	VARCHAR2(5)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER

[Download CSV](#)

5 rows selected.

TABLE S

Column	Null?	Type
SNO	NOT NULL	NUMBER
SNAME	-	VARCHAR2(20)
CITY	-	VARCHAR2(20)

[Download CSV](#)

3 rows selected.

Live SQL

SQL Worksheet

Actions: Clear Find Save Run

3 rows selected.

TABLE P

Column	Null?	Type
PNO	NOT NULL	NUMBER(10,0)
PNAME	-	VARCHAR2(20)
COLOR	-	VARCHAR2(20)

[Download CSV](#)

3 rows selected.

TABLE J

Column	Null?	Type
JNO	NOT NULL	NUMBER(10,0)
JNAME	-	VARCHAR2(20)
CITY	-	VARCHAR2(20)

[Download CSV](#)

3 rows selected.

TABLE SPJ

Column	Null?	Type
SNO	NOT NULL	NUMBER(10,0)
PNO	NOT NULL	NUMBER(10,0)
JNO	NOT NULL	NUMBER(10,0)
QTY	-	NUMBER(10,0)

[Download CSV](#)

4 rows selected.

```
--Q2
select * from user_cons_columns where table_name = 'DEPT'
select * from user_cons_columns where table_name = 'EMP'
select * from user_cons_columns where table_name = 'S'
select * from user_cons_columns where table_name = 'P'
select * from user_cons_columns where table_name = 'J'
select * from user_cons_columns where table_name = 'SPJ'
```

Live SQL

SQL Worksheet

Actions: Clear Find Save Run

OWNER	CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME	POSITION
SQL_QWADCWQUJSVAZNVKZRJTACXUI	DNAME	DEPT	DNAME	-
SQL_QWADCWQUJSVAZNVKZRJTACXUI	DEPTNO	DEPT	DEPTNO	1

Download CSV  
2 rows selected.

OWNER	CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME	POSITION
SQL_QWADCWQUJSVAZNVKZRJTACXUI	DEPTNO_EMP	EMP	DEPTNO	1
SQL_QWADCWQUJSVAZNVKZRJTACXUI	EMPN	EMP	EMPN	1
SQL_QWADCWQUJSVAZNVKZRJTACXUI	ENAME	EMP	ENAME	1
SQL_QWADCWQUJSVAZNVKZRJTACXUI	JOB	EMP	JOB	-
SQL_QWADCWQUJSVAZNVKZRJTACXUI	SAL	EMP	SAL	-

Download CSV  
5 rows selected.

OWNER	CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME	POSITION
SQL_QWADCWQUJSVAZNVKZRJTACXUI	SNO	S	SNO	1

Download CSV

OWNER	CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME	POSITION
SQL_QWADCWQUJSVAZNVKZRJTACXUI	PNO	P	PNO	1

Download CSV

OWNER	CONSTRAINT_NAME	TABLE_NAME	COLUMN_NAME	POSITION
SQL_QWADCWQUJSVAZNVKZRJTACXUI	JNO	J	JNO	1

Download CSV  
6 rows selected.

```
--Q3
Alter table emp drop constraint ename;

--Q4
Alter table emp drop constraint deptno_emp;

--Q5
Alter table emp add constraint dept_emp foreign key(deptno) references dept(deptno);
```

Live SQL

SQL Worksheet

Actions: Clear Find Save Run

Table altered.
Table altered.
Table altered.

--Q6
Alter table emp
modify ename int;

--Q7

```

Alter table dept modify dname varchar(20);

--Q8
Alter table emp add comm float(5);

--Q9
Alter table J
drop column city;

--Q10
CREATE TABLE emp_dup AS SELECT * FROM emp;

```

Live SQL

SQL Worksheet

Table created.

```
--Q11
create table newdept as(select deptno as new_deptno, dname as new_dname from 'DEPT')
```

Live SQL

SQL Worksheet

Table created.

```
--Q12
Update emp set ename = 'Abhinav', job = 'Prof' where empno = 100

--Q13
Delete from emp where dept = 'comp'

--Q14
Drop table dept

--Q15
Drop table emp_dup
```

Live SQL

SQL Worksheet

1 row(s) updated.

ORA-00904: "DEPT": invalid identifier

ORA-02449: unique/primary keys in table referenced by foreign keys

Table dropped.

## Assignment 7

```

create table SalesPeople(
    snum number,
    sname varchar(20) constraint un unique,
    city varchar(20),
    comm number(3,2),--It is used to declare a decimal number
    primary key(snum)
);

insert into SalesPeople values(1001,'Peel','London',.12);
insert into SalesPeople values(1002,'Serres','San Jose',.13);
insert into SalesPeople values(1004,'Motika','London',.11);
insert into SalesPeople values(1007,'Rifkin','Barcelona',.15);
insert into SalesPeople values(1003,'Axelrod','New York',.10);

select * from SalesPeople;

create table Customers(
    cnum number,
    cname varchar(20),
    city varchar(20) not NULL,
    snum number,
    primary key(cnum),
    foreign key(snum) references SalesPeople(snum)
);

insert into Customers values(2001,'Hoffman','London',1001);
insert into Customers values(2002,'Giovanni','Rome',1003);
insert into Customers values(2003,'Liu','San Jose',1002);
insert into Customers values(2004,'Grass','Berlin',1002);
insert into Customers values(2006,'Clemens','London',1001);
insert into Customers values(2008,'Cisneros','San Jose',1007);
insert into Customers values(2007,'Pereira','Rome',1004);

select * from Customers;

create table Orders(
    onum number,
    amt number(6,2),--number(total_digits,digits after decimal)
    odate date,
    cnum number,
    snum number,
    primary key(onum),
    foreign key(cnum) references Customers(cnum),
    foreign key(snum) references SalesPeople(snum)
);

insert into Orders values(3001, 18.69, '03-OCT-1990', 2008, 1007);
insert into Orders values(3003, 767.19, '03-OCT-1990', 2001, 1001);
insert into Orders values(3002, 1900.10, '03-OCT-1990', 2007, 1004);
insert into Orders values(3005, 5160.45, '03-OCT-1990', 2003, 1002);
insert into Orders values(3006, 1098.16, '03-OCT-1990', 2008, 1007);
insert into Orders values(3009, 1713.23, '04-OCT-1990', 2002, 1003);
insert into Orders values(3007, 75.75, '04-OCT-1990', 2004, 1002);
insert into Orders values(3008, 4273.00, '05-OCT-1990', 2006, 1001);
insert into Orders values(3010, 1309.95, '06-OCT-1990', 2004, 1002);
insert into Orders values(3011, 9891.88, '06-OCT-1990', 2006, 1001);

Select * from Orders;

```

Live SQL

SQL Worksheet

Table created.

1 row(s) inserted.

SNUM	SNAME	CITY	COMM
1001	Peel	London	.12
1002	Serres	San Jose	.13
1004	Motika	London	.11
1007	Rifkin	Barcelona	.15
1003	Axelrod	New York	.1

[Download CSV](#)

5 rows selected.

Live SQL

SQL Worksheet

Table created.

1 row(s) inserted.

CNUM	CNAME	CITY	SNUM
2001	Hoffman	London	1001
2002	Giovanni	Rome	1003
2003	Liu	San Jose	1002
2004	Grass	Berlin	1002
2006	Clemens	London	1001
2008	Cisneros	San Jose	1007
2007	Pereira	Rome	1004

[Download CSV](#)

7 rows selected.

The screenshot shows a Live SQL interface with the following details:

- Header:** Includes "Live SQL" logo, "Feedback", "Help", and "yarora\_be20@thapar.edu" email.
- Toolbar:** Buttons for "Clear", "Find", "Actions", "Save", and "Run".
- SQL Worksheet:** Displays the following SQL command and its output:

```
insert into account values(3001, 18.69, '03-OCT-98', 2008, 1007);
insert into account values(3003, 767.19, '03-OCT-98', 2001, 1001);
insert into account values(3002, 1900.1, '03-OCT-98', 2007, 1004);
insert into account values(3005, 5168.45, '03-OCT-98', 2003, 1002);
insert into account values(3006, 1098.16, '03-OCT-98', 2008, 1007);
insert into account values(3009, 1713.23, '04-OCT-98', 2002, 1003);
insert into account values(3007, 75.75, '04-OCT-98', 2004, 1002);
insert into account values(3008, 4273, '05-OCT-98', 2006, 1001);
insert into account values(3010, 1309.95, '06-OCT-98', 2004, 1002);
insert into account values(3011, 9891.88, '06-OCT-98', 2006, 1001);
```

Output: 1 row(s) inserted.  
1 row(s) inserted.
- Table View:** A table named "account" with columns ONUM, AMT, ODATE, CNUM, and SNUM, containing the inserted data.
- Bottom Bar:** Buttons for "Download CSV" and "10 rows selected".

```
--Q1  
Select count(Snum) from SalesPeople where sname like 'a%' or sname like 'A%';  
  
--Q2  
Select snum, sum(amt) from Orders group by Snum having sum(amt) > 2000;  
  
--Q3  
Select count(*) as SalesPeople_from_NY from SalesPeople where city='New York'
```

Live SQL

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SQL Worksheet

Clear Find Actions Save Run

COUNT(SNUM)  
1  
[Download CSV](#)

SNUM	SUM(AMT)
1001	14932.07
1002	6546.15

[Download CSV](#)  
2 rows selected.

SALESPeople\_FROM\_NY  
1  
[Download CSV](#)

```
--Q4
Select count(*) as Number_of_SalesPeople, city from SalesPeople group by city having city='London' or city='Paris';

--Q5
Select snum, count(*) as Orders_Taken, odate from Orders group by snum, odate;

--Q6
Select count(*) as Number_of_SalesPersons, odate from Orders group by odate;
```

Live SQL

SQL Worksheet

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Clear Find Actions Save Run

NUMBER_OF_SALESPERSONS	CITY
2	London

[Download CSV](#)

SNUM	ORDERS_TAKEN	ODATE
1001	1	03-OCT-90
1002	1	03-OCT-90
1003	1	04-OCT-90
1004	1	03-OCT-90
1001	1	05-OCT-90
1002	1	06-OCT-90
1007	2	03-OCT-90
1002	1	04-OCT-90
1001	1	06-OCT-90

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9 rows selected.

NUMBER_OF_SALESPERSONS	ODATE
2	04-OCT-90
1	05-OCT-90
2	06-OCT-90
5	03-OCT-90

[Download CSV](#)

4 rows selected.

```
--Q7
Select * from Customers where cname like 'G%' and RowNum <2 order by cname;
-- RowNum checks for Row number and we need first entry only so we set rownum<2

--Q8
Select * from Orders where (snum, amt) in (select snum, max(amt) from Orders group by snum having snum=1002 or snum=1007);

--Q10
select count(*), city, comm from SalesPeople group by city, comm;
```

Live SQL

SQL Worksheet

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Clear Find Actions Save Run

CNUM	CNAME	CITY	SNUM
2002	Giovanni	Rome	1003

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ONUM	AMT	ODATE	CNUM	SNUM
3005	5160.45	03-OCT-90	2003	1002
3006	1098.16	03-OCT-90	2008	1007

[Download CSV](#)

2 rows selected.

COUNT(*)	CITY	COMM
1	London	.12
1	San Jose	.13
1	New York	.1
1	London	.11
1	Barcelona	.15

[Download CSV](#)

5 rows selected.