AVIROOP PAUL | 20051136

DBMS LAB REPORT

NAME: AVIROOP PAUL

ROLL NUMBER: 20051136

SECTION: CSE-22

```
CREATE TABLE Deposit2005040 (
  ActNo varchar2(5),
  CName varchar2(20),
  BName varchar2(20),
  Amount number(8,2),
  Adate date
);
CREATE TABLE Branch2005040 (
  BName varchar2(20),
  City varchar2(20)
);
CREATE TABLE Customer2005040 (
  CName varchar2(20),
  City varchar2(20)
);
CREATE TABLE Borrow2005040 (
  LoanNo varchar2(5),
  CName varchar2(20),
  BName varchar2(20),
  Amount number(8,2)
);
DESC Deposit20051136;
SQL> desc deposit20051136
                                               Null?
 Name
                                                         Type
 ACTNO
                                                         VARCHAR2(5)
 CNAME
                                                         VARCHAR2(20)
 BNAME
                                                         VARCHAR2(20)
 AMOUNT
                                                         NUMBER(8,2)
 ADATE
                                                         DATE
DESC Branch20051136;
SQL> desc branch20051136
                                               Null?
                                                         Type
 BNAME
                                                         VARCHAR2(20)
                                                         VARCHAR2(20)
 CITY
```

DESC Customer2005040;

SQL> desc customer20051136 Name	Null?	Туре
CNAME CITY		VARCHAR2(20) VARCHAR2(20)

DESC Borrow2005040;

SQL> desc borrow20051136		
Name	Null?	Type
LOANNO		VARCHAR2(5)
CNAME		VARCHAR2(20)
BNAME		VARCHAR2(20)
AMOUNT		NUMBER(8,2)

INSERT INTO Deposit2005040 (ActNo, CName, BName, Amount, Adate) VALUES ('102', 'Rahul', 'KAROLBAGH', '3500.00', '17-NOV-95');

SQL> s	select * ·	from deposit2	20051136;			
ACTNO	CNAME		BNAME	AMOUNT	ADATE	
100	ANIL		VRCE	1000	01-MAR-95	
101	SUNIL		AJNI	5000	04-JAN-96	
102	RAHUL		KAROLBAGH	3500	17-NOV-95	
103	MADHURI		CHANDNI	1200	17-DEC-95	
105	SANDIP		KAROLBAGH	2000	31-MAR-96	
104	Pramod		MGROAD	3000	27-MAR-96	

INSERT INTO Branch2005040 (BName, City) VALUES ('MGROAD', 'BANGALORE');

SQL> select * from branch20051136;		
BNAME	CITY	
MGRoad	Bangalore	
VRCE	NAGPUR	
AJNI	NAGPUR	
KAROLBAGH	DELHI	
CHANDNI	DELHI	

INSERT INTO Customer2005040 (CName, City) VALUES ('PRAMOD', 'NAGPUR');

INSERT INTO Borrow2005040 (LoanNo, CName, BName, Amount) VALUES (375, 'PRAMOD', 'VIHAR', 8000.00);

SQL> s	select * from borrow2	0051136;	
LOANN	CNAME	BNAME	AMOUNT
375 201 206 311 321	Pramod ANIL RAHUL SUNIL MADHURI	Vihar VRCE AJNI DHARAMPEETH ANDHERI	8000 1000 5000 3000 2000

LAB-2

ID	FNAME	LNAME	AGE	GENDER	LOC
1	Raj	Kumar	23	М	IND
2	Ajay	Panda	26	M	AUS
3	Sivam	Prasad	22	M	ENG
4	Pinky	Singh	26	F	AUS
5	Rahul	Kumar	24	M	BAN
6	Aditya	Das	29	M	IND
7	Avik	Das	28	M	IND
8	Shital	Jena	23	F	ENG
9	Soham	Tiwari	26	M	NZ

- 1. Create a table Customer with following attributes:
 - Customer ID, First name, Last name, age of customer, gender of customer and present address of customer.
- 2. Display the structure of the created customer table.
- 3. Insert the following values in the table.
- 4. Retrieve and display the customer table with all values of attributes.
- 5. Retrieve and display all customer names.
- Display the gender of all customers.
- Fetch the unique addresses from customer table.
- 8. Display the current age and the age of customers after 2 years.
- 9. Combine the first and last name of customers and display it.
- 10. Retrieve the IDs of customer who lives in IND.
- 11. Display the customer details whose age is more than 25 years.
- 12. Display the IDs of customer who don't live in ENG.
- 13. Display the customer IDs and gender who either lives in AUS or age is 26.
- 14. Fetch all customer details whose name end with 'Das'.
- 15. List all customer IDs whose name starts with 'S'.
- 16. List out the customer age whose first name has 'i' as the 3rd letter.
- 17. Retrieve the customer details whose age is between 24 years to 28 years.
- 18. List out the customer address whose name has a 'n' alphabet in it.

```
Q1.
          SQL> create table cust20051136(
            2 CustID number(10),
            3 Fname varchar2(20),
           4 Lname varchar2(20),
           5 Age number(3),
6 Gender char(1),
            7 LOC varchar2(10)
            8 );
          Table created.
          SQL> desc cust20051136;
Q2.
                                                      Null? Type
           Name
           CUSTID
                                                                NUMBER(10)
           FNAME
                                                                VARCHAR2(20)
           LNAME
                                                                VARCHAR2(20)
           AGE
                                                                NUMBER(3)
           GENDER
                                                                CHAR(1)
           LOC
                                                                VARCHAR2(10)
```

```
SQL> insert into cust20051136 values (1, 'Raj', 'Kumar', 23, 'M', 'IND');
Q3.
         1 row created.
         SQL> insert into cust20051136 values (2, 'Ajay', 'Panda', 26, 'M', 'AUS');
         1 row created.
         SQL> insert into cust20051136 values (3, 'Sivam', 'Prasad', 22, 'M', 'ENG');
         1 row created.
         SQL> insert into cust20051136 values (4, 'Pinky', 'Singh', 26, 'F', 'AUS');
         1 row created.
         SQL> insert into cust20051136 values (5, 'Rahul', 'Kumar', 24, 'M', 'BAN');
         1 row created.
         SOL>
         SQL> insert into cust20051136 values (6, 'Aditya', 'Das', 29, 'M', 'IND');
         1 row created.
         SQL> insert into cust20051136 values (7, 'Avik', 'Das', 28, 'M', 'IND');
         1 row created.
         SQL> insert into cust20051136 values (8, 'Shital', 'Jena', 23, 'F', 'ENG');
         1 row created.
         SQL> insert into cust20051136 values (9, 'Soham', 'Tiwari', 26, 'M', 'NZ');
         1 row created.
```

```
Q4.
     SQL> select * from cust20051136;
         CUSTID FNAME
                            LNAME
                                                           AGE G LOC
                            Kumar
Panda
            1 Raj
                                                            23 M IND
             2 Ajay
                                                            26 M AUS
                                Prasad
             3 Sivam
                                                            22 M ENG
             4 Pinky
                                 Singh
                                                            26 F AUS
             5 Rahul
                                 Kumar
                                                            24 M BAN
             6 Aditya
                                 Das
                                                            29 M IND
             7 Avik
                                 Das
                                                            28 M IND
             8 Shital
                                                            23 F ENG
                                  Jena
             9 Soham
                                  Tiwari
                                                            26 M NZ
     9 rows selected.
Q5.
     SQL> select FNAME, LNAME from cust20051136;
     FNAME
                       LNAME
                   Panda
     Raj
     Ajay
     Sivam
                       Prasad
     Pinky
                       Singh
     Rahul
                       Kumar
     Aditya
                       Das
     Avik
                        Das
     Shital
                        Jena
     Soham
                        Tiwari
     9 rows selected.
Q6.
     SQL> select FNAME, LNAME, GENDER from cust20051136;
                       LNAME
                        Kumar
     Raj
Ajay
                   Panda
Pasad
     Sivam
                       Prasad
                                           Μ
     Pinky
                                           F
                       Singh
     Rahul
                       Kumar
                                           М
     Aditya
                       Das
                                           Μ
     Avik
                        Das
                                           Μ
     Shital
                        Jena
                                           F
     Soham
                       Tiwari
                                           М
     9 rows selected.
Q7.
     SQL> select distinct LOC from cust20051136;
     LOC
     AUS
     NZ
     ENG
     IND
     BAN
```

```
SQL> select AGE, AGE+2 "NewAge" from cust20051136;
               AGE NewAge
                23 25
                26
                          28
                22
                          24
                26
                           28
                24
                          26
                29
                          31
                28
                          30
                23
                           25
                26
                          28
         9 rows selected.
Q9.
         SQL> select FNAME ||' '||LNAME from cust20051136;
         FNAME||''||LNAME
         Raj Kumar
         Ajay Panda
         Sivam Prasad
         Pinky Singh
         Rahul Kumar
         Aditya Das
         Avik Das
         Shital Jena
         Soham Tiwari
         9 rows selected.
Q10.
         SQL> select custID from cust20051136 where LOC='IND';
            CUSTID
                1
                6
                 7
Q11.
         SQL> select * from cust20051136 where AGE>25;
                                       LNAME
            CUSTID FNAME
                                                                  AGE G LOC
                2 Ajay
                                       Panda
                                                                  26 M AUS
                 4 Pinky
                                                                  26 F AUS
                                       Singh
                 6 Aditya
                                                                   29 M IND
                                       Das
                                                                  28 M IND
                 7 Avik
                                       Das
                 9 Soham
                                       Tiwari
                                                                   26 M NZ
```

Q8.

```
SQL> select custID from cust20051136 where LOC!='ENG';
Q12.
             CUSTID
                 1
                 2
                 4
                  5
                  6
         7 rows selected.
Q13.
         SQL> select custID, GENDER from cust20051136 where LOC='AUS' OR AGE=26;
             CUSTID G
                 2 M
                 4 F
                 9 M
Q14
         SQL> select * from cust20051136 where Lname='Das';
             CUSTID FNAME
                                         LNAME
                                                                     AGE G LOC
              6 Aditya
7 Avik
                                        Das
                                                                     29 M IND
                                        Das
                                                                     28 M IND
Q15.
         SQL> select custID from cust20051136 where Fname like 'S%';
             CUSTID
                  3
                 8
                  9
```

```
Q16.
          SQL> select AGE from cust20051136 where Fname like '__i%';
                 AGE
                  29
                  28
                  23
Q17.
          SQL> select * from cust20051136 where AGE between 24 and 28;
              CUSTID FNAME
                                           LNAME
                                                                        AGE G LOC
                   2 Ajay
                                           Panda
                                                                          26 M AUS
                   4 Pinky
                                                                          26 F AUS
                                           Singh
                   5 Rahul
                                           Kumar
                                                                          24 M BAN
                   7 Avik
                                           Das
                                                                          28 M IND
                   9 Soham
                                           Tiwari
                                                                          26 M NZ
Q18.
          SQL> select LOC from cust20051136 where Fname like '%n%';
          LOC
          AUS
```

ASSIGNMENT-2

- 1. Retrieve the details from the table DEPOSIT(roll number)
- Calculate TA(10% of amount),DA(20% of amount) and TOTAL of each customer from BORROW(roll number) table also project CNAME & AMOUNT.
- 3. Retrieve the customer name, account no of DEPOSIT(roll number).
- Retrieve the name of the customer living in NAGPUR.
- 5. Retrieve the name of the customers who opened account after 17-NOV-95.
- Retrieve the account number and amount of the customer having account opened between 01-12-95 and 01-06.96.
- 7. Retrieve all the records from the table DEPOSIT(roll number) where CNAME begins with C..
- 8. Retrieve all the records from the table BORROW(roll number) where 2nd character of CNAME is U.
- Retrieve all the records from the table DEPOSIT(roll number) where branch name is CHANDNI or MGROAD.
- Retrieve all the records from the table DEPOSIT(roll number) where branch name is not in CHANDNI or MGROAD.
- 11. Retrieve all the records from the table BORROW(roll number) where amount in between 2000 and
- 12. Retrieve all the records from DEPOSIT(roll number). where amount > 1000 and arrange the customer name in ascending order.
- 13. Retrieve all the records from BOOROW(roll number) where amount>1000 and arrange customer name in ascending and branch name in descending order.
- 14. Find out the tables which are created by the user.
- 15. Retrieve customer details from BORROW(roll number) table where the third character of the customer name is either 'A' or 'D'.
- Retrieve all the records from the table BORROW(roll number) where amount is not between 2000 and 8000.
- 17. Find out the unique records from the table DEPOSIT(roll number).

```
SQL> select * from deposit20051136;
                           BNAME
ACTNO CNAME
                                                     AMOUNT ADATE
100
    ANIL
                          VRCE
                                                       1000 01-MAR-95
    SUNIL
                           INCA
101
                                                       5000 04-JAN-96
102
     RAHUL
                          KAROLBAGH
                                                       3500 17-NOV-95
103
    MADHURI
                           CHANDNI
                                                       1200 17-DEC-95
105
     SANDIP
                           KAROLBAGH
                                                       2000 31-MAR-96
104
     Pramod
                            MGROAD
                                                        3000 27-MAR-96
6 rows selected.
SQL> select cname, amount, 0.1*amount "TA", 0.2*amount "DA", amount+0.1*amount+0.2*amount "Total" from borrow20051136;
CNAME
                 AMOUNT
                                            Total
```

10400 Pramod 8000 800 1600 ANIL 1000 100 200 1300 6500 3900 RAHUL 5000 500 1000 SUNIL 3000 300 600 MADHURI 2000 200 400 2600

```
SQL> select actno, cname from deposit20051136;

ACTNO CNAME

100 ANIL
101 SUNIL
102 RAHUL
103 MADHURI
105 SANDIP
104 Pramod

6 rows selected.
```

```
SQL> select cname from customer20051136 where CITY='NAGPUR' OR CITY='Nagpur';
CNAME
```

Pramod

MADHURI

```
SQL> select * from deposit20051136 where CNAME like 'C%'; no rows selected
```

SQL> s	select * from borr	ow20051136 where CNA	AME like '_U%';
LOANN	CNAME	BNAME	AMOUNT
311	SUNIL	DHARAMPEETH	3000

```
SQL> select * from deposit20051136 where BNAME!='CHANDNI' OR BNAME!='MGROAD';
ACTNO CNAME
                        BNAME
                                                AMOUNT ADATE
100 ANIL
                         VRCE
                                                  1000 01-MAR-95
101 SUNIL
                        INCA
                                                  5000 04-JAN-96
102
     RAHUL
                         KAROLBAGH
                                                  3500 17-NOV-95
103
    MADHURI
                         CHANDNI
                                                  1200 17-DEC-95
105
    SANDIP
                         KAROLBAGH
                                                  2000 31-MAR-96
104
                         MGROAD
                                                  3000 27-MAR-96
    Pramod
```

```
SQL> select * from deposit20051136 where BNAME='CHANDNI' OR BNAME='MGROAD';

ACTNO CNAME BNAME AMOUNT ADATE

103 MADHURI CHANDNI 1200 17-DEC-95
104 Pramod MGROAD 3000 27-MAR-96
```

```
SQL> select * from borrow20051136 where amount between 2000 and 3000;
LOANN CNAME
                       BNAME
                                              AMOUNT
                       DHARAMPEETH
311
    SUNIL
                                                3000
321 MADHURI
                                                2000
                       ANDHERI
SQL> select * from deposit20051136 where amount>1000 order by CNAME;
ACTNO CNAME
                       BNAME
                                              AMOUNT ADATE
103
    MADHURI
                       CHANDNI
                                               1200 17-DEC-95
104
    Pramod
                       MGROAD
                                               3000 27-MAR-96
102
    RAHUL
                       KAROLBAGH
                                               3500 17-NOV-95
    SANDIP
                                               2000 31-MAR-96
105
                       KAROLBAGH
101 SUNIL
                       AJNI
                                               5000 04-JAN-96
SQL> select * from borrow20051136 where amount>1000 order by CNAME, BNAME desc;
LOANN CNAME
                       BNAME
                                              AMOUNT
                       ANDHERI
321
    MADHURI
                                                2000
375
    Pramod
                       Vihar
                                                8000
206 RAHUL
                       INCA
                                               5000
                       DHARAMPEETH
311 SUNIL
                                               3000
SQL> select * from borrow20051136 where CNAME like '__A%' or CNAME like '__D%';
                                              AMOUNT
LOANN CNAME
                       BNAME
321 MADHURI
                       ANDHERI
                                                2000
SQL> select * from borrow20051136 where amount<2000 or amount>8000;
LOANN CNAME
                       BNAME
                                              AMOUNT
201 ANIL
                      VRCE
                                               1000
SQL> select * from deposit20051136;
ACTNO CNAME
                        BNAME
                                              AMOUNT ADATE
100
    ANIL
                       VRCE
                                               1000 01-MAR-95
101
    SUNIL
                       INCA
                                               5000 04-JAN-96
102
                       KAROLBAGH
    RAHUL
                                               3500 17-NOV-95
103
    MADHURI
                       CHANDNI
                                               1200 17-DEC-95
105
    SANDIP
                       KAROLBAGH
                                               2000 31-MAR-96
104
                       MGROAD
                                                3000 27-MAR-96
   Pramod
```

```
SQL> select distinct amount from deposit20051136;

AMOUNT
-----
1000
5000
1200
3500
2000
3000
```

```
SQL> update deposit20051136
 2 set amount=amount*0.1
 3 where bname='VRCE';
1 row updated.
SQL> select * from deposit20051136;
ACTNO CNAME
             BNAME
                                           AMOUNT ADATE
100 ANIL
                                              100 01-MAR-95
                      VRCE
101 SUNIL
                       INCA
                                             5000 04-JAN-96
                       KAROLBAGH
102 RAHUL
                                             3500 17-NOV-95
103
   MADHURI
                       CHANDNI
                                              1200 17-DEC-95
105
   SANDIP
                      KAROLBAGH
                                             2000 31-MAR-96
104
   Pramod
                       MGROAD
                                              3000 27-MAR-96
```

```
SQL> update deposit20051136
 2 set amount=amount+amount*0.1
 3 where bname='VRCE' AND cname='ANIL';
1 row updated.
SQL> select * from deposit20051136;
ACTNO CNAME
                        BNAME
                                               AMOUNT ADATE
100 ANIL
                       VRCE
                                                1210 01-MAR-95
                                                5000 04-JAN-96
101 SUNIL
                       AJNI
                                                3500 17-NOV-95
102 RAHUL
                       KAROLBAGH
103 MADHURI
                       CHANDNI
                                                1200 17-DEC-95
105
                                                2000 31-MAR-96
    SANDIP
                        KAROLBAGH
104 Pramod
                        MGROAD
                                                3000 27-MAR-96
SQL> create table STUDENT (
 2 name varchar(20),
 3 rollno number(10),
 4 branch varchar2(20),
 5 city varchar2(20));
Table created.
SQL> desc student;
                                     Null?
                                               Type
NAME
                                               VARCHAR2(20)
ROLLNO
                                               NUMBER(10)
BRANCH
                                               VARCHAR2(20)
CITY
                                               VARCHAR2(20)
```

```
SQL> insert into student values('Vijaya', 150, 'CSE', 'Chennai');

1 row created.

SQL> insert into student values('Sita', 202, 'ETC', 'Kolkata');

1 row created.

SQL> insert into student values('Ravi', 300, 'EEE', 'Delhi');

1 row created.

SQL> insert into student values('Basu', 165, 'ETC', 'Chennai');

1 row created.

SQL> insert into student values('Rasmi', 107, 'ETC', 'RKL');

1 row created.

SQL> insert into student values('Karan', 111, 'CSE', 'CTC');

1 row created.

SQL> insert into student values('Karan', 111, 'BME', 'BBSR');

1 row created.
```

SQL> select *	from student;		
NAME	ROLLNO	BRANCH	CITY
 √ijaya	150	CSE	Chennai
Vijaya Sita	202	ETC	Kolkata
Ravi	300	EEE	Delhi
Basu	165	ETC	Chennai
Rasmi	107	ETC	RKL
Karan	111	CSE	СТС
Rekha	117	BME	BBSR
7 nove coloct	- d		

```
COUNT(BRANCH)
SQL> select count(branch) from student where branch='CSE';
COUNT (BRANCH)
SQL> select count(branch) from student where branch='ETC';
COUNT(BRANCH)
SQL> select count(branch) from student where branch='EEE';
COUNT (BRANCH)
SQL> select count(branch) from student where branch='BME';
SQL> select count(branch) from student where branch='BME';
COUNT(BRANCH)
SQL> select count(branch) from student where branch like 'E%';
COUNT (BRANCH)
SQL> delete from student where branch='ETC';
3 rows deleted.
SQL> select * from student;
NAME
                     ROLLNO BRANCH
Vijaya
                         150 CSE
                                                 Chennai
                         300 EEE
Ravi
                                                 Delhi
                         111 CSE
Karan
                                                 CTC
                          117 BME
Rekha
                                                 BBSR
```

SQL> select count(branch) from student;

```
Table renamed.
SQL> alter table studentinformation add marks number(8);
Table altered.
SQL> desc studentinformation;
                                           Null?
                                                     Type
 NAME
                                                     VARCHAR2(20)
 ROLLNO
                                                     NUMBER(10)
 BRANCH
                                                     VARCHAR2(20)
 CITY
                                                     VARCHAR2(20)
MARKS
                                                     NUMBER(8)
SQL> alter table studentinformation modify name varchar2(25);
Table altered.
SQL> alter table studentinformation drop column marks;
Table altered.
SQL> desc studentinformation;
Name
                                           Null?
                                                     Type
NAME
                                                     VARCHAR2(25)
 ROLLNO
                                                     NUMBER(10)
BRANCH
                                                     VARCHAR2(20)
CITY
                                                     VARCHAR2(20)
SQL> delete from studentinformation;
4 rows deleted.
SQL> desc studentinformation;
                                            Null?
Name
                                                     Type
NAME
                                                     VARCHAR2(25)
 ROLLNO
                                                     NUMBER(10)
BRANCH
                                                     VARCHAR2(20)
CITY
                                                     VARCHAR2(20)
SQL> drop table studentinformation;
Table dropped.
```

SQL> rename student to studentinformation;

```
SQL> select sysdate from dual;

SYSDATE
------
17-FEB-22

SQL> select * from dual;

D
-
X

SQL> select 4*5 from dual;

4*5
------
20
```

```
SQL> select last_day(sysdate) from dual;
LAST_DAY(
28-FEB-22
SQL> select months_between(sysdate, '17-feb-22') from dual;
MONTHS_BETWEEN(SYSDATE,'17-FEB-22')
                0
SQL> select months_between(sysdate, '17-feb-23') from dual;
MONTHS_BETWEEN(SYSDATE,'17-FEB-23')
_____
               -12
SQL> select months_between(sysdate, '17-feb-21') from dual;
MONTHS_BETWEEN(SYSDATE,'17-FEB-21')
                12
SQL> clear
SQL> clear;
SQL> select 10 * 10 from dual;
  10*10
-----
   100
SQL> select sysdate from dual;
SYSDATE
17-FEB-22
SQL> select abs(-20) from dual;
ABS(-20)
    20
SQL> select power(10,10) from dual;
POWER(10,10)
```

```
1.0000E+10
SQL> select sqrt(25) from dual;
SQRT(25)
    5
SQL> select round(23.565, 1) from dual;
ROUND(23.565,1)
     23.6
SQL> select lower('TRIDENT') from dual;
LOWER('
trident
SQL> select upper('trident') from dual;
UPPER('
TRIDENT
SQL> select substr('Oracle', 0, 3) from dual;
SUB
---
Ora
SQL> select extract(month from sysdate) from dual;
EXTRACT(MONTHFROMSYSDATE)
            2
SQL> select months_between('01-jan-07', '01-may-07') from dual;
MONTHS_BETWEEN('01-JAN-07','01-MAY-07')
                   -4
SQL> select abs(months_between('01-jan-07', '01-may-07')) from dual;
ABS(MONTHS_BETWEEN('01-JAN-07','01-MAY-07'))
```

4

SQL> select round(56.23, -1) from dual;

ROUND(56.23,-1)

60

SQL> select round(56.23, -2) from dual;

ROUND(56.23,-2)

100

SQL> select round(56.23, -3) from dual;

ROUND(56.23,-3)

0

SQL> select mod(1600, 300) AS remainder from dual;

REMAINDER

100

SQL> select * from customer20051136;

CNAME CITY

Pramod Nagpur
ANIL CALCUTTA
SUNIL DELHI
RAHUL BARODA
MADHURI NAGPUR

SQL> select * from cust20051136;

	CUSTID FNAME	LNAME	AGE G LOC
•			
	1 Raj	Kumar	23 M IND
	2 Ajay	Panda	26 M AUS
	3 Sivam	Prasad	22 M ENG
	4 Pinky	Singh	26 F AUS
	5 Rahul	Kumar	24 M BAN

7 8	Aditya Avik Shital Soham	Das Das Jena Tiwari	29 M IND 28 M IND 23 F ENG 26 M NZ	
9 rows	s selected.			
SQL> s	select max(ago	e) from cust20051	136;	
	(AGE)			
29				
SQL> select min(age) from cust20051136;				
MIN(AGE)				
22	<u>.</u>			
LAB-6				

SQL> create table faculty(

- 2 ID number(2), fname varchar(20) constraint a1 not null,
- 3 Iname varchar(20), age number(2) constraint s2 check (age>20 and age<60),
- 4 address varchar(3) constraint a3 not null, dept varchar(10));

Table created.

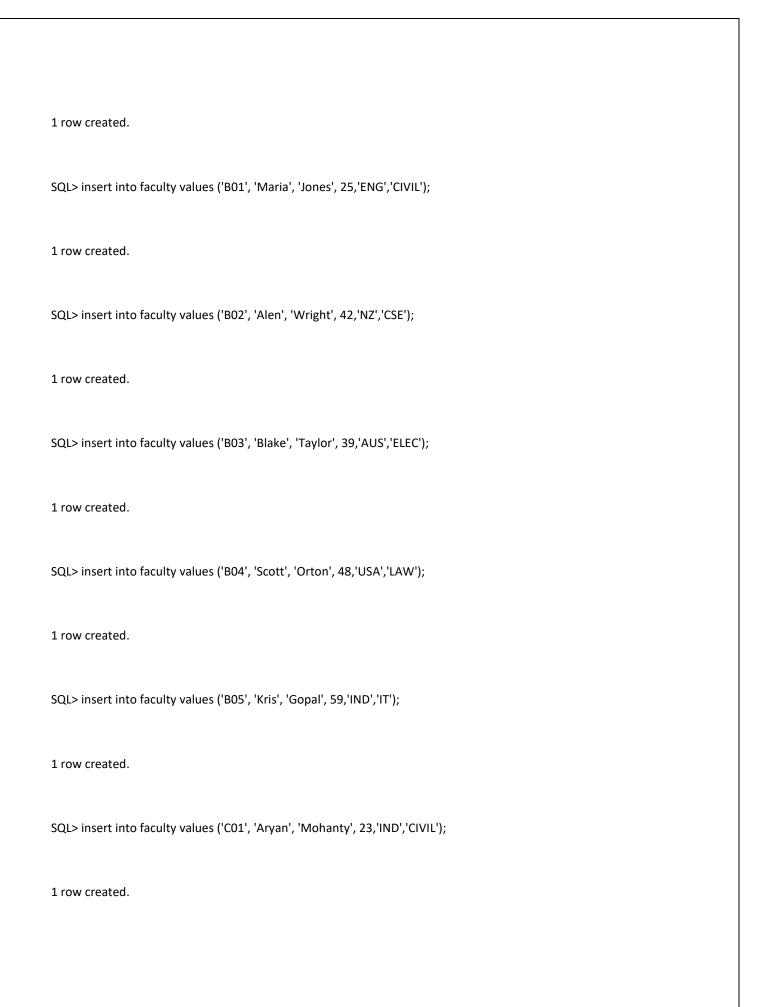
SQL> drop table faculty;

Table dropped.

SQL> create table faculty(

2 ID varchar(3), fname varchar(20) constraint a1 not null,					
3 Iname varchar(20), age number(2) constraint s2 check (age>20 and age<60),					
4 address varchar(3) co	onstraint a3 not null, dept varchar(10));			
Table created.					
SQL> desc faculty;					
Name	Null? Type				
ID	VARCHAR2(3)				
FNAME	NOT NULL VARCHAR2(20)				
LNAME	VARCHAR2(20)				
AGE	NUMBER(2)				
ADDRESS	NOT NULL VARCHAR2(3)				
DEPT	VARCHAR2(10)				
SQL> drop table faculty;					
Table dropped.					
SQL> create table facult	SQL> create table faculty(
2 ID varchar(3), fname varchar(20) constraint a1 not null,					
3 Iname varchar(20), age number(2) constraint s2 check (age>20 and age<60),					
4 address varchar(3) co	onstraint a3 not null, dept varchar(10),	, constraint a4 primary key(ID));			
Table created.					

SQL> desc faculty;				
Name	Null? Type			
ID	NOT NULL VARCHAR2(3)		
FNAME	NOT NULL VARCHAR	2(20)		
LNAME	VARCHAR2(20)			
AGE	NUMBER(2)			
ADDRESS	NOT NULL VARCHA	R2(3)		
DEPT	VARCHAR2(10)			
SQL> insert into fa	aculty values ('A01', 'Nick', 'Jone	es', 34,'AUS', 'CSE');		
1 row created.				
SQL> insert into faculty values ('A02', 'Albert', 'Cruz', 43,'NZ', 'ELEC');				
1 row created.				
SQL> insert into faculty(ID, fname, lname, age, address) values ('A03', 'Priti', 'Roy', 46, 'IND');				
1 row created.				
SQL> insert into faculty values ('A04', 'Rakesh', 'Ranjan', 54,'IND','IT');				
1 row created.				
SQL> insert into fa	aculty values ('A05', 'Jyoti', 'Das	', 28,'IND','MECH');		



 $SQL> insert\ into\ faculty (ID,\ fname,\ age,\ address,\ dept)\ values\ ('CO2',\ 'Samuel',\ 31,'SL','LAW');$

1 row created.

SQL> insert into faculty values ('CO3', 'Abir', 'Abrahim', 36,'IND','MECH');

1 row created.

SQL> select * from faculty;

ID FNAME		AGE ADD DEPT
A01 Nick	Jones	34 AUS CSE
A02 Albert	Cruz	43 NZ ELEC
A03 Priti	Roy	46 IND
A04 Rakesh	Ranjan	54 IND IT
A05 Jyoti	Das	28 IND MECH
B01 Maria	Jones	25 ENG CIVIL
B02 Alen	Wright	42 NZ CSE
B03 Blake	Taylor	39 AUS ELEC
B04 Scott	Orton	48 USA LAW
B05 Kris	Gopal	59 IND IT
C01 Aryan	Mohanty	23 IND CIVIL
ID FNAME	LNAME	AGE ADD DEPT

C02 Samuel		31 SL LAW
C03 Abir	Abrahim	36 IND MECH
13 rows selecte	ed.	
COLS coloot * fr	on foculty whore	a address='ALIS'.
SQL> select · II	om faculty where	e address= AOS ;
ID FNAME		AGE ADD DEPT
A01 Nick	Jones	34 AUS CSE
B03 Blake	Taylor	39 AUS ELEC
SQL> select ID 1	from faculty wher	re dept='CSE';
ID		
ID 		
A01		
B02		
SQL> select fna	me from faculty v	where age>40;
FNAME		
Albert		
Priti		
Rakesh		
Alen		

Scott		
Kris		
6 rows selecte	ad.	
o rows selecte	cu.	
SQL> select * 1	from faculty whe	re fname like '%i%';
ID FNAME	LNAME	AGE ADD DEPT
A01 Nick	Jones	34 AUS CSE
A03 Priti	Roy	46 IND
A05 Jyoti	Das	28 IND MECH
B01 Maria	Jones	25 ENG CIVIL
B05 Kris	Gopal	59 IND IT
C03 Abir	Abrahim	36 IND MECH
6 rows selecte	d.	
SQL> alter tab	le faculty add(sal	ary number(8) default 2
Table altered.		
SQL> select fn	ame from faculty	order by age desc;
FNAME		
	-	

	Kris
	Rakesh
	Scott
	Priti
	Albert
	Alen
	Blake
	Abir
	Nick
:	Samuel
	Jyoti
	FNAME
	Maria
	Aryan
	13 rows selected.
	SQL> select dept from faculty where Iname=NULL;
	no rows selected
	SQL> select dept from faculty where Iname='NULL';
	no rows selected

s and a state of a state of the
> select dept from faculty where lname=";
rows selected
> select dept from faculty where Iname is null;
т
v
> select ID from faculty where Iname like '%n';
l de la companya de
.> select count(ID) from faculty where address='IND';
UNT(ID)
6
.> update faculty set salary=40000 where age>40;
ows updated.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

SQL> select * f	from faculty;	
	LNAME	AGE ADD DEPT
SALARY		
A01 Nick	Jones	34 AUS CSE
A02 Albert 40000	Cruz	43 NZ ELEC
A03 Priti 40000	Roy	46 IND
	LNAME	AGE ADD DEPT
SALARY		
A04 Rakesh 40000	Ranjan	54 IND IT
A05 Jyoti 20000	Das	28 IND MECH
B01 Maria	Jones	25 ENG CIVIL

	LNAME	
SALARY		
B02 Alen	Wright	42 NZ CSE
40000		
B03 Blake	Taylor	39 AUS ELEC
20000		
B04 Scott	Orton	48 USA LAW
40000		
	LNAME	AGE ADD DEPT
SALARY		
B05 Kris	Gopal	59 IND IT
40000		
C01 Aryan	Mohanty	23 IND CIVIL

		31 SL LAW
20000		
	LNAME	AGE ADD DEP
SALARY		
C03 Abir 20000	Abrahim	36 IND MECH
13 rows select	ted.	
SOL> select *		
SQL> select * ID FNAME		AGE ADD DEP
ID FNAME SALARY	from faculty; LNAME	AGE ADD DEP
ID FNAME	from faculty; LNAME	

Roy

46 IND

A03 Priti

	LNAME	
SALARY		
A04 Rakesh 40000	Ranjan	54 IND IT
A05 Jyoti 20000	Das	28 IND MECH
B01 Maria 20000	Jones	25 ENG CIVIL
	LNAME	AGE ADD DEPT
SALARY B02 Alen 40000	Wright	42 NZ CSE
B03 Blake	Taylor	39 AUS ELEC

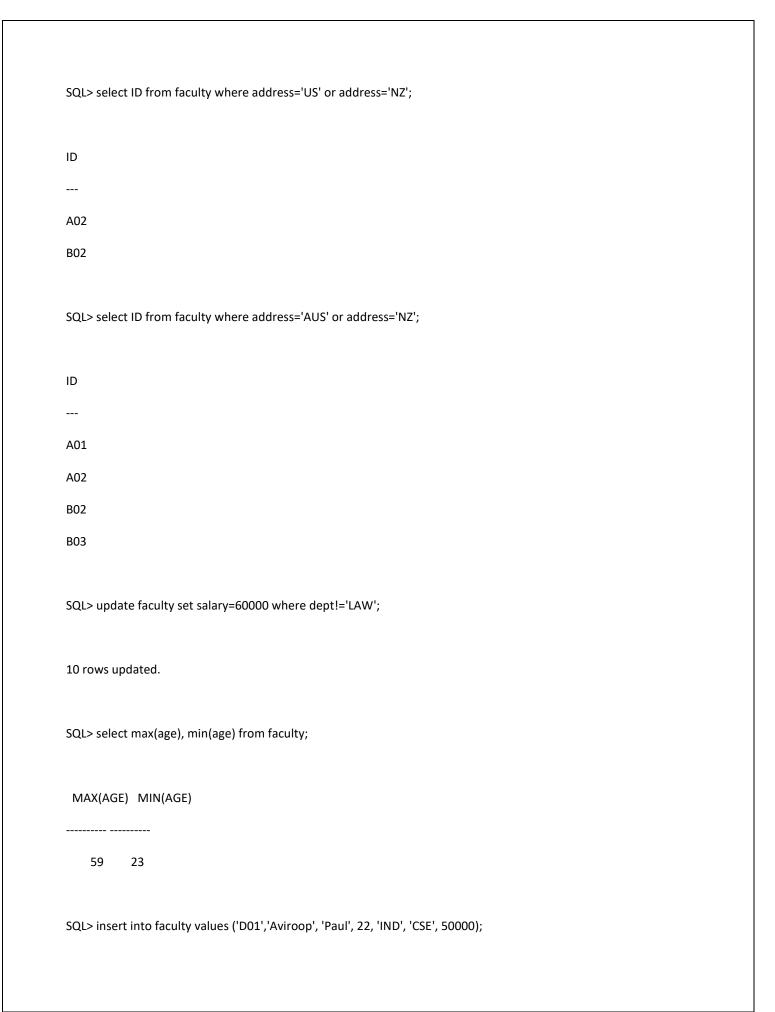
B04 Scott 40000	Orton	48 USA LAW
	LNAME	AGE ADD DEPT
SALARY		
B05 Kris 40000	Gopal	59 IND IT
C01 Aryan 20000	Mohanty	23 IND CIVIL
C02 Samuel 20000		31 SL LAW
	LNAME	AGE ADD DEPT
SALARY		
C03 Abir 20000	Abrahim	36 IND MECH
13 rows select	ed.	

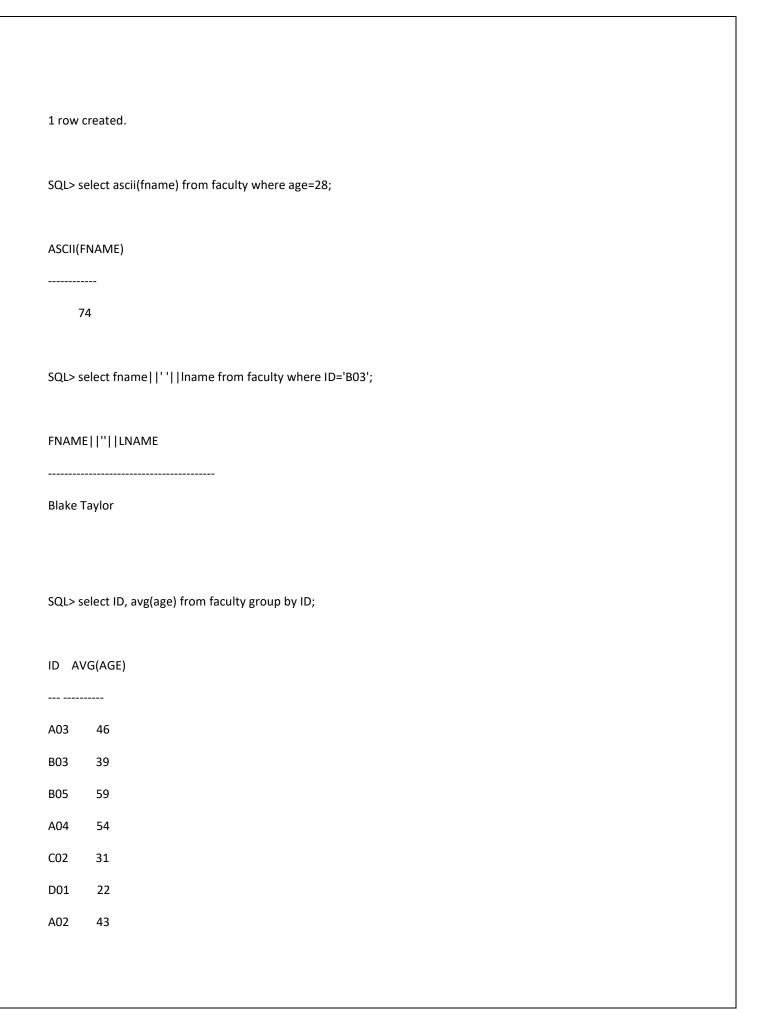
SQL> set page width 500; SP2-0158: unknown SET option "page" SQL> set page-width 500; SP2-0158: unknown SET option "page-width" SQL> set page 500; SP2-0158: unknown SET option "page" SQL> set pagesize 500; SQL> select * from faculty; ID FNAME LNAME AGE ADD DEPT SALARY A01 Nick Jones 34 AUS CSE 20000 A02 Albert Cruz 43 NZ ELEC 40000 **46 IND** A03 Priti Roy 40000 A04 Rakesh Ranjan 54 IND IT 40000 A05 Jyoti Das 28 IND MECH

20000		
B01 Maria 20000	Jones	25 ENG CIVIL
B02 Alen 40000	Wright	42 NZ CSE
B03 Blake 20000	Taylor	39 AUS ELEC
B04 Scott 40000	Orton	48 USA LAW
B05 Kris 40000	Gopal	59 IND IT
C01 Aryan 20000	Mohanty	23 IND CIVIL
C02 Samuel 20000		31 SL LAW
C03 Abir 20000	Abrahim	36 IND MECH

13 rows selec	ted.	
SQL> set rows	size 500;	
SP2-0158: unl	known SET option	"rowsize"
SQL> select *	from faculty wher	re dept='MECH';
ID FNAME	LNAME	AGE ADD DEPT
SALARY		
A05 Jyoti 20000	Das	28 IND MECH
C03 Abir 20000	Abrahim	36 IND MECH
SQL> update	faculty set dept='L	.AW' where ID='A03';
1 row update	d.	
SQL> select u	nique(id) from fac	ulty;
ID		
A01		
A02		

A03				
A04				
A05				
B01				
B02				
B03				
B04				
B05				
C01				
C02				
C03				
SQL> Sele	ect unique(dept) from	racuity;		
DEPT				
LAW				
IT				
ELEC				
CIVIL				
CSE				
MECH				
6 rows se	elected.			





B02	42		
C01	23		
A05	28		
B01	25		
B04	48		
C03	36		
A01	34		
14 row	rs selected.		
SQL> so	elect avg(age) from faculty where age>30 group by	ID;	
SQL> so	elect avg(age) from faculty where age>30 group by	ID;	
		ID;	
AVG(A	AGE)	ID;	
AVG(A	AGE) 	ID;	
AVG(#	AGE) 	ID;	
AVG(#	AGE) - S	ID;	
AVG(A 46 39	AGE)	ID;	
AVG(A 46 39 59	AGE)	ID;	
AVG(A 46 39 59	AGE)	ID;	
AVG(A 46 39 59 54	AGE)	ID;	
AVG(A 46 39 59 54 31 43	AGE)	ID;	
AVG(A 46 39 59 54 31 43 42 48	AGE)	ID;	
AVG(A 46 39 59 54 31 43 42	AGE)	ID;	

	select ID, avg(age) from faculty where age>30 gro	
ID A	VG(AGE)	
A03	46	
B03	39	
B05	59	
A04 C02	5431	
A02	43	
B02	42	
B04	48	
C03	36	
A01	34	
10 rov	vs selected.	
SQL>		