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Sql Assignments



[http://4.bp.blogspot.com/-MiK-_pJdXWU/VbzrnrBxP2I/AAAAAAAANSY/Zp0pn89Hbu4/s1600/Introduction%2Bto%2BSQL.png]

Assignment -1

Creating sample tables and inserting values.

Create the following tables with the given structures and insert sample data as specified: -

A) SALESPEOPLE

Snum number(4)
Sname varchar2(10)
city varchar2(10)
Comm number(3,2)

Answer:

```
CREATE TABLE salespeople (
    snum number(4), sname varchar2(10),
    city varchar2(10),
    comm number(3,2) );
```

B) CUSTOMERS

Cnum number(4)
Cname varchar2(10)
City varchar2(10)
Rating number(4)
Snum number(4)

Answer:

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T(4) ,

C) ORDERS

Onum number(4)

Amt number(7,2)

Odate date

Cnum number(4)

Snum number(4)

Answer:

```
CREATE TABLE orders ( onum
number(4), amt number(7,2),
odate date, cnum number(4),
snum number(4) );
```

SALES PEOPLE

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	.10

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ORDERS

```
INSERT INTO customers
VALUES(&cnum,'&cname', '&city',&rating,&snum);
```

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03- OCT -1990	2008	1007
3003	767.19	03- OCT -1990	2001	1001
3002	1900.10	03- OCT -1990	2007	1004
3005	5160.45	03- OCT -1990	2003	1002
3006	1098.16	03- OCT -1990	2008	1007
3009	1713.23	04- OCT -1990	2002	1003
3007	75.75	04- OCT -1990	2004	1002
3008	4723.00	05- OCT -1990	2006	1001
3010	1309.95	06- OCT -1990	2004	1002
3011	9891.88	06- OCT -1990	2006	1001

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03- OCT -1990	2008	1007
3003	767.19	03- OCT -1990	2001	1001
3002	1900.10	03- OCT -1990	2007	1004
3005	5160.45	03- OCT -1990	2003	1002
3006	1098.16	03- OCT -1990	2008	1007
3009	1713.23	04- OCT -1990	2002	1003
3007	75.75	04- OCT -1990	2004	1002
3008	4723.00	05- OCT -1990	2006	1001
3010	1309.95	06- OCT -1990	2004	1002
3011	9891.88	06- OCT -1990	2006	1001

```
INSERT INTO orders
VALUES(&onum,&amt,'&odate',
&cnum,&snum);
```

ONUM	AMT	ODATE	CNUM	SNUM
------	-----	-------	------	------

```
INSERT INTO ORDERS
VALUES(3001,18.69,'03-OCT-1
990',
2008,
1007);
```

```
INSERT INTO ORDERS
VALUES(3003,767.19,'03- OCT
-1990',
2001,
1001);
```

```
INSERT INTO ORDERS
VALUES(3002,1900.10,'03- OC
T -1990');
```

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```
T -1990',  
2003,  
1002);  
  

INSERT INTO ORDERS  

VALUES(3006,1098.16,'03- OC  
T -1990',  
2008,  
1007);  
  

INSERT INTO ORDERS  

VALUES(3009,1713.23,'04- OC  
T -1990',2002,  
1003);  
  

INSERT INTO ORDERS  

VALUES(3007,75.75,'04- OCT  
-1990',2004,  
1002);  
  

INSERT INTO ORDERS  

VALUES(3008,4723.00,'05- OC  
T -1990',2006,  
1001);  
  

INSERT INTO ORDERS  

VALUES(3010,309.95,'06- OCT  
-1990',2004,  
1002);  
  

INSERT INTO ORDERS  

VALUES(3011,9891.88,'06- OC  
T -1990',2006,  
1001);
```

Assignment -2

##Introducing Relational Databases.

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Ans:- Rating

3) What is another word for row? For column?

Ans:- duple or record

4) Why isn't it possible to see the first five rows of a table?

Ans :- Because tuples don't have orders.

Assignment -3

##Overview of SQL.

1) Does ANSI recognize the data type DATE?

Ans :- Yes.

2) Which subdivision of SQL is used to put values in tables?

Ans :- insert into values

Assignment -4

##Retrieving Information from Tables.

1) Write a select command that produces the order number, amount, and date for all rows in the Orders table.

```
SELECT onum,
       amt,
       odate
FROM orders;
```

UM AMT ODATE

3001	18.69	03-OCT-90
3003	767.19	03-OCT-90
3002	1900.1	03-OCT-90
3005	5160.45	03-OCT-90
3006	1000.10	03-OCT-90

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10 rows selected.

2) Write a query that produces all rows from the Customers table for which the salesperson's number is 1001.

```
SELECT *
FROM customers
WHERE snum=1001;
```

CNUM CNAME CITY RATING SNUM

2001 hoffman london 100 1001
2006 clemens london 100 1001

3) Write a query that displays the Salespeople table with the columns in the following order: city, sname, snum, comm.

```
SELECT city,
       sname,
       snum,
       comm.
FROM salespeople;
```

CITY SNAME SNUM COMM

london peel 1001 .12
san jose serres 1002 .13
newyork axelrod 1003 .1
london Motika 1004 .11
barcelona rifkin 1007 .15

4) Write a select command that produces the rating followed by the name of each customer in San Jose.

```
SELECT rating || ' ' || cname
"employee rating"
```

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300 cisneros

5) Write a query that will produce the snum values of all salespeople (suppress the duplicates) with orders in the Orders table.

```
SELECT DISTINCT snum,
               onum
FROM salespeople
ORDER BY snum;
```

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SNUM ONUM

1002 3007
 1002 3010
 1001 3011
 1004 3002
 1002 3005
 1007 3006
 1003 3009
 1001 3008
 1007 3001
 1001 3003

10 rows selected.

Assignment -5

##Relational and Logical Operators.

1) Write a query that will give you all orders for more than Rs. 1,000.

```
SELECT *
FROM orders
WHERE amt>1000;
```

ONUM AMT ODATE CNUM SNUM

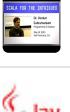
3002	1900.1	03-OCT-90	2007	1004
3005	5160.45	03-OCT-90	2003	1002
3006	1000.16	02-OCT-90	2008	1007

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7 rows selected.

2) Write a query that will give you the names and cities of all salespeople in London with a commission above .10.

```
SELECT sname,
       city
FROM salespeople
WHERE city='London'
      AND comm >.10;
```

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SNAME CITY

peel	London
Motika	London

3) Write a query on the Customers table whose output will exclude all customers with a rating <= 100, unless they are located in Rome.

```
SELECT *
FROM customers
WHERE rating>100
      OR city='rome';
```

CNUM	CNAME	CITY	RATING	SNUM
2002	Giovanni	Rome	200	1003
2003	Liu	San Jose	200	1002
2004	Grass	Berlin	300	1002
2008	Cisneros	San Jose	300	1007
2007	Pereira	Rome	100	1004

4) What will be the output from the following query?

```
SELECT *
FROM Orders
WHERE (amt < 1000
```

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ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3005	5160.45	03-OCT-90	2003	1002
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002
3008	4723	05-OCT-90	2006	1001
3010	1309.95	06-OCT-90	2004	1002
3011	9891.88	06-OCT-90	2006	1001

Display all tuple from order except date is 03-oct 1990 with cnum >2003 or orders where amt is less than 1000 or

Display all order having amount less than 1000 or having order except on 03-oct-1990 with cnum>2003.

5) What will be the output of the following query?

```
SELECT *
FROM Orders
WHERE NOT ((odate = '03-OCT
-1990')
OR snum>1006)
AND amt >= 1500
);
```

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3006	1098.16	03-OCT-90	2008	1007
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002
3008	4723	05-OCT-90	2006	1001
3010	1309.95	06-OCT-90	2004	1002
3011	9891.88	06-OCT-90	2006	1001

6) What is a simpler way to write this query?

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```
FROM Salespeople
WHERE (comm > .12
      OR comm < .14);
```

```
SELECT snum,
       sname,
       city,
       comm
FROM Salespeople
WHERE (comm > .
      SELECT snum,
             sname,
             city,
             comm
      FROM salespeople WHERE co
mm =.13;
```

```
12
OR comm < .14);
```

SNUM	SNAME	CITY	COMM
1002	Serres	San Jose	.13

SNUM	SNAME	CITY	COMM
1002	Serres	San Jose	.13

Assignment -6

##Using Special Operators in Conditions.

- 1) Write two different queries that would produce all orders taken on October 3rd or 4th, 1990.

```
SELECT *
FROM orders
WHERE odate= '03-oct-1990'
      OR odate= '04-oct-1990';
```

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004

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7 rows selected.

```
SET feedback OFF; --feed back disable
```

```
SET feedback ON; --for feed back enable
```

```
SELECT *  
FROM orders  
WHERE odate BETWEEN '03-oct-1990' AND '04-oct-1990';
```

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004
3005	5160.45	03-OCT-90	2003	1002
3006	1098.16	03-OCT-90	2008	1007
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002

2) Write a query that selects all of the customers serviced by Peel or Motika.

(Hint: the snum field relates the two tables to one another).

```
SELECT *  
FROM customers  
WHERE snum IN  
(SELECT snum  
FROM salespeople  
WHERE sname='Peel'  
OR sname='Motika');
```

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3) Write a query that will produce all the customers whose names begin with a letter from 'A' to 'G'.

```
SELECT *
FROM customers
WHERE cname LIKE 'a%'
OR cname LIKE 'b%'
OR cname LIKE 'C%'
OR cname LIKE 'D%'
OR cname LIKE 'E%'
OR cname LIKE 'F%'
OR cname LIKE 'G%' ;
```

CNUM	CNAME	CITY	RATING	SNUM
2002	Giovanni	Rome	200	1003
2004	Grass	Berlin	300	1002
2006	Clemense	London	100	1001
2008	Cisneros	San Jose	300	1007

4 rows selected.

Second approach

```
SELECT *
FROM customers
WHERE substr(cname,1,1) BET
WEEN 'A' AND 'G' ;
```

CNUM	CNAME	CITY	RATING	SNUM
2002	Giovanni	Rome	200	1003
2004	Grass	Berlin	300	1002
2006	Clemense	London	100	1001
2008	Cisneros	San Jose	300	1007

4) Write a query that selects all customers whose names begin with the letter 'C'.

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CNUM	CNAME	CITY	RATING	SNUM
------	-------	------	--------	------

2006	Clemense	London	100	1001
2008	Cisneros	San Jose	300	1007

2 rows selected.

5) Write a query that selects all orders except those with zeroes or NULLs in the amt field.

```
SELECT *
FROM orders
WHERE amt IS NOT NULL;
```

ONUM	AMT	ODATE	CNUM	SNUM
------	-----	-------	------	------

3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004
3005	5160.45	03-OCT-90	2003	1002
3006	1098.16	03-OCT-90	2008	1007
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002
3008	4723	05-OCT-90	2006	1001
3010	1309.95	06-OCT-90	2004	1002
3011	9891.88	06-OCT-90	2006	1001

10 rows selected.

Assignment -7

##Summarizing Data with Aggregate Functions.

1) Write a query that counts all orders for October 3.

```
SELECT count(onum) total_order
FROM orders
WHERE odate LIKE '03-OCT-%'
;
```

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1 row selected.

2) Write a query that counts the number of different non-NULL city values in the Customers table.

```
SELECT count(cname) empty_city
FROM customers
WHERE cname IS NOT NULL;
```

EMPTY_CITY

7

3) Write a query that selects each customer's smallest order.

```
SELECT min(amt) ) "smallest
order",
cnum
FROM orders
GROUP BY cnum;
```

MIN(AMT) CNUM

767.19	2001
4723	2006
1900.1	2007
5160.45	2003
75.75	2004
18.69	2008
1713.23	2002

7 rows selected.

4) Write a query that selects the first customer, in alphabetical order, whose name begins with G.

```
SELECT *
```

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```
2002 Giovanni Rome 200 1003
2004 Grass Berlin 300 1002
```

2 rows selected.

5) Write a query that selects the highest rating in each city.

```
SELECT max(rating) "highest rating"
FROM customers;
```

highest rating

300

1 row selected.

6) Write a query that counts the number of salespeople registering orders for each day. (If a salesperson has more than one order on a given day, he or she should be counted only once.).

```
SELECT count(odate) || ' SALE
S PERSON REGISTREDDON ' "TOTAL",
       odate
FROM orders
GROUP BY odate;
```

TOTAL ODATE

2 SALES PERSON REGISTREDD ON 04-OCT-90

1 SALES PERSON REGISTREDD ON 05-OCT-90

5 SALES PERSON REGISTREDD ON 03-OCT-90

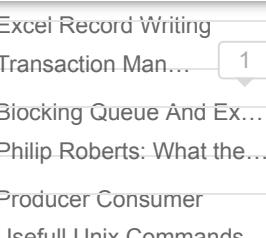
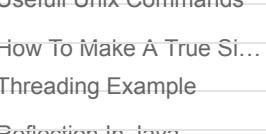
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Sql Assignments

##Formatting Query output.

- 1) Assume each salesperson has a 12% commission. Write a query on the orders table that will produce the order number, the salesperson number, and the amount of the salesperson's commission for that order.

```
SELECT onum,
       snum,
       amt,
       (amt*12)/100 commisi
on
FROM orders;
```

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ONUM SNUM AMT COMMISSION

ONUM	SNUM	AMT	COMMISSION
3001	1007	18.69	2.2428
3003	1001	767.19	92.0628
3002	1004	1900.1	228.012
3005	1002	5160.45	619.254
3006	1007	1098.16	131.7792
3009	1003	1713.23	205.5876
3007	1002	75.75	9.09
3008	1001	4723	566.76
3010	1002	1309.95	157.194
3011	1001	9891.88	1187.0256

10 rows selected.

- 2) Write a query on the Customers table that will find the highest rating in each city.

Put the output in this form:

For the city (city), the highest rating is : (rating).

```
SELECT onum,
       snum,
       amt,
       (amt*12)/100 commisi
on
FROM orders;
```

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3002	1004	1900.1	228.012
3005	1002	5160.45	619.254
3006	1007	1098.16	131.7792
3009	1003	1713.23	205.5876
3007	1002	75.75	9.09
3008	1001	4723	566.76
3010	1002	1309.95	157.194
3011	1001	9891.88	1187.0256

10 rows selected.

3) Write a query that lists customers in descending order of rating. Output the rating field first, followed by the customer's name and number.

```
SELECT rating,
      cname,
      snum
FROM customers
ORDER BY rating DESC;
```

RATING CNAME SNUM

300	grass	1002
300	cisneros	1007
200	giovanni	1003
100	pereira	1004
100	clemens	1001
100	hoffman	1001

4) Write a query that totals the orders for each day and places the results in descending order.

```
SELECT count(odate) "TOTAL
      ORDERS",
      odate
FROM orders
GROUP BY odate
ORDER BY "TOTAL ORDERS";
```

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2 04-OCT-90

5 03-OCT-90

Assignment – 9

##Querying Multiple Tables at Once.

- 1) Write a query that lists each order number followed by the name of the customer who made the order.

```
SELECT onum,  
       cname  
FROM orders o,  
          customers c  
WHERE c.cnum=o.cnum ;
```

ONUM CNAME

3001	cisneros
3003	hoffman
3002	pereira
3006	cisneros
3009	giovanni
3007	grass
3008	clemens
3010	grass
3011	clemens

9 rows selected.

- 2) Write a query that gives the names of both the salesperson and the customer for each order along with the order number.

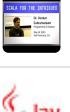
```
SELECT sname,  
       cname,  
       onum  
FROM orders o,  
          customers c,  
          salespeople s  
WHERE o.snum=c.snum  
AND o.onum=s.onum
```

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```
peel hottman 3003
axelrod giovanni 3009
serres grass 3010
serres grass 3007
serres grass 3005
peel clemens 3011
peel clemens 3008
peel clemens 3003
rifkin cisneros 3006
```

SNAME CNAME ONUM

```
rifkin cisneros 3001
Motika pereira 3002
```

13 rows selected.

3) Write a query that produces all customers serviced by salespeople with a commission above 12%. Output the customer's name, the salesperson's name, and the salesperson's rate of commission.

OLD STYLE:

```
SELECT cname,
        s.snum,
        comm*100 "RATE OF CO
MM."
FROM customers c,
        salespeople s
WHERE c.snum=s.snum
AND comm>.12 ;
```

CNAME SNUM RATE OF COMM.

```
grass 1002 13
cisneros 1007 15
liu 1002 13
```

NEW STYLE:

```
SELECT cname,
        snum
```

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```
WHERE comm>.12;
```

CNAME SNUM RATE OF COMM.

grass	1002	13
cisneros	1007	15
liu	1002	13

4) Write a query that calculates the amount of the salesperson's commission on each order by a customer with a rating above 100.

```
SELECT amt,
       comm
  FROM salespeople
 JOIN customers using(snum)
 JOIN orders using(snum)
 WHERE rating>100;
```

AMT COMM

18.69	.15
5160.45	.13
5160.45	.13
1098.16	.15
1713.23	.1
75.75	.13
75.75	.13
1309.95	.13
1309.95	.13

9 rows selected.

Assignment – 10

##Joining a Table to Itself.

1) Write a query that produces all pairs of salespeople who are living in the same city. Exclude combinations of salespeople with themselves as well as duplicate rows with the order reversed.

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```
Salespeople n
WHERE m.city=n.city
AND m.sname<n.sname;
```

SNAME SNAME CITY

Motika peel london

2) Write a query that produces the names and cities of all customers with the same rating as Hoffman.

```
SELECT cname,
       city
  FROM customers
 WHERE rating =
    (SELECT rating
       FROM customers
      WHERE cname='hoffman'
    );
```

CNAME CITY

hoffman london
clemens london
pereira rome

Spa

Apache Spark Ex...

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JSON

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```
SELECT onum "ALL ORDERS",
       cnum
  FROM orders
 WHERE cnum=
    (SELECT cnum
       FROM ...);
```

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3001 2008
3006 2008

2) Write a query that produces the names and ratings of all customers who have above-average orders.

```
SELECT cname,  
       rating  
FROM customers  
WHERE cnum IN  
    (SELECT cnum  
     FROM orders  
     WHERE amt >  
      (SELECT avg(amt)  
       FROM orders));
```

CNAME RATING

liu 200
clemens 100

3) Write a query that selects the total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.

```
SELECT sum(amt)  
FROM orders  
GROUP BY snum  
HAVING sum(amt)>  
    (SELECT max(amt)  
     FROM orders);
```

SUM(AMT) 15382.07

Assignment – 12

##Using the operators ANY, ALL and SOME.

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```

-----+
FROM customers
WHERE rating >=ANY
  (SELECT rating
   FROM customers
   WHERE snum IN
     (SELECT snum
      FROM salespeople
      WHERE sname='serr
es' ) );
  
```

CNUM	CNAME	CITY	RATING	SNUM
2008	cisneros	san jose	300	1007
2004	grass	berlin	300	1002
2002	giovanni	rome	200	1003
2003	liu	san jose	200	1002

2) Write a query using ANY or ALL that will find all salespeople who have no customers located in their city.

```

SELECT snum
FROM salespeople
WHERE (snum,
       city) NOT IN
  (SELECT snum,
       city
    FROM customers);
  
```

SNUM

1007

1004

1003

3) Write a query that selects all orders for amounts greater than any for the customers in London.

```

SELECT *
FROM orders
  
```

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```
FROM customers
WHERE city='londo
n' ) );
```

ONUM	AMT	ODATE	CNUM	SNUM
3011	9891.88	06-OCT-90	2006	1001
3005	5160.45	03-OCT-90	2003	1002
3008	4723	05-OCT-90	2006	1001
3002	1900.1	03-OCT-90	2007	1004
3009	1713.23	04-OCT-90	2002	1003
3010	1309.95	06-OCT-90	2004	1002
3006	1098.16	03-OCT-90	2008	1007

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```
SELECT cname,
       city,
       'HIGH RATING' RATING
FROM customers
WHERE rating > 200
UNION
SELECT cname,
       city,
       'LOW RATING' RATING
FROM customers
WHERE rating <= 200;
```

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CNAME CITY RATING

CNAME	CITY	RATING
cisneros	san jose	HIGH RATING
clemens	london	LOW RATING
giovanni	rome	LOW RATING
grass	berilin	HIGH RATING
hoffman	london	LOW RATING
liu	san jose	LOW RATING
pereira	rome	LOW RATING

7 rows selected.

2) Write a command that produces the name and number of each salesperson and each customer with more than one current order. Put the results in alphabetical order.

```
SELECT sname,
       snum,
       cname
FROM salespeople
JOIN customers using(snum)
WHERE snum IN
       (SELECT snum
        FROM customers
        GROUP BY snum
        HAVING count(snum)>1)
ORDER BY sname,
       cname;
```

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Serres 1002 G
 Serres 1002 Liu

3) Form a union of three queries. Have the first select the snums of all salespeople in San Jose; the second, the cnums of all customers in San Jose; and the third the onums of all orders on October 3. Retain duplicates between the last two queries but eliminate any redundancies between either of them and the first.

(Note: in the sample tables as given, there would be no such redundancy. This is besides the point.)

```
SELECT snum
FROM salespeople
WHERE city='san jose'
UNION
SELECT DISTINCT snum
FROM orders
WHERE snum IN
  (SELECT snum
    FROM orders
    WHERE odate LIKE '03-0
CT-%');
```

SNUM

1001
 1002
 1004
 1007

Assignment – 14

##Inserting, Deleting, and Changing Field Values.

1) Write a command that puts the following values, in their given order, into the

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```
VALUES('San Jose',
       'Blanco',
       NULL,
       1100);
```

--1 row created.

2) Write a command that removes all orders from customer Clemens from the Orders table.

```
SELECT *
FROM orders;
```

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004
3005	5160.45	03-OCT-90	2003	1002
3006	1098.16	03-OCT-90	2008	1007
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002
3008	4723	05-OCT-90	2006	1001
3010	1309.95	06-OCT-90	2004	1002
3011	9891.88	06-OCT-90	2006	1001

10 rows selected.

```
DELETE
FROM orders
WHERE cnum IN
(SELECT cnum
FROM customers
WHERE cname='Clemens'
);
```

--2 rows deleted.

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ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004
3005	5160.45	03-OCT-90	2003	1002
3006	1098.16	03-OCT-90	2008	1007
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002
3010	1309.95	06-OCT-90	2004	1002

8 rows selected.

ROLLBACK TO savepoint a;

--Rollback complete.

SELECT *
FROM orders;

ONUM	AMT	ODATE	CNUM	SNUM
3001	18.69	03-OCT-90	2008	1007
3003	767.19	03-OCT-90	2001	1001
3002	1900.1	03-OCT-90	2007	1004
3005	5160.45	03-OCT-90	2003	1002
3006	1098.16	03-OCT-90	2008	1007
3009	1713.23	04-OCT-90	2002	1003
3007	75.75	04-OCT-90	2004	1002
3008	4723	05-OCT-90	2006	1001
3010	1309.95	06-OCT-90	2004	1002
3011	9891.88	06-OCT-90	2006	1001

10 rows selected.

3) Write a command that increases the rating of all customers in Rome by 100.!

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CNUM CNAME CITY RATING SNUM

2001	Hoffman	London	100	1001
2002	Giovanni	Rome	200	1003
2004	Grass	Berlin	300	1002
2006	Clemens	London	100	1001
2008	Cisneros	San Jose	300	1007
2007	Pereira	Rome	100	1004
2003	Liu	San Jose	200	1002

7 rows selected.

```
savepoint a;
```

--Savepoint created.

```
UPDATE customers
SET rating=rating+100;
```

--7 rows updated.

```
SELECT *
FROM Customers;
```

CNUM CNAME CITY RATING SNUM

2001	Hoffman	London	200	1001
2002	Giovanni	Rome	300	1003
2004	Grass	Berlin	400	1002
2006	Clemens	London	200	1001
2008	Cisneros	San Jose	400	1007
2007	Pereira	Rome	200	1004
2003	Liu	San Jose	300	1002

7 rows selected.

```
ROLLBACK TO savepoint a;
```

--Rollback complete.

```
SELECT *
FROM customers;
```

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2004	Grass	Berlin	300	1002
2006	Clemens	London	100	1001
2008	Cisneros	San Jose	300	1007
2007	Pereira	Rome	100	1004
2003	Liu	San Jose	200	1002

7 rows selected.

4) Salesperson Serres has left the company.
Assign her customers to Motika.

```
UPDATE customers
SET snum=
  (SELECT snum
   FROM salespeople
   WHERE sname='serres')
WHERE snum =
  (SELECT snum
   FROM salespeople
   WHERE sname='Motika');
```

--1 row updated.

Assignment – 15

##Using Subqueries with DML Commands.

1) Assume there is a table called Multicust, with all of the same column definitions as Salespeople. Write a command that inserts all salespeople with more than one customer into this table.

```
CREATE TABLE Multicast AS
SELECT *
FROM salespeople
WHERE snum IN
  (SELECT snum
   FROM customers
   GROUP BY snum
   HAVING count(snum)>1);
```

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```
1001 Peel London .12
1002 Serres San Jose .13
```

2) Write a command that deletes all customers with no current orders.

```
INSERT INTO customers
VALUES(2012,
      'rakesh',
      'bikaner',
      500,
      1005);
```

--1 row created.

```
DELETE customers
WHERE cnum=ANY
(SELECT cnum
 FROM orders
 WHERE cnum NOT IN
 (SELECT cnum
  FROM customers));
```

--1 rows deleted.

3) Write a command that increases by twenty percent the commissions of all salespeople with total current orders above Rs. 3,000.

```
SELECT *
FROM salespeople;
```

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

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```
FROM orders
WHERE amt>300);
```

-- 5 rows updated.

```
SELECT *
FROM salespeople;
```

SNUM	SNAME	CITY	COMM
1001	Peel	London	.14
1002	Serres	San Jose	.16
1004	Motika	London	.13
1007	Rifkin	Barcelona	.18
1003	Axelrod	Newyork	.12

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ALTER TABLE orders MODIFY o num CONSTRAINT o_pk PRIMARY KEY;

--Table altered.
DESCRIBE orders;

Name	Null?	Type
ONUM	NOT NULL	NUMBER(4)
AMT		NUMBER(7,2)
ODATE		DATE
CNUM		NUMBER(4)
SNUM		NUMBER(4)

ONUM	NOT NULL	NUMBER(4)
AMT		NUMBER(7,2)
ODATE		DATE
CNUM		NUMBER(4)
SNUM		NUMBER(4)

3) Create an index that would permit each salesperson to retrieve his or her orders grouped by date quickly.'

CREATE INDEX I_DATE ON orders(odate);

4) Let us suppose that each salesperson is to have only one customer of a given rating, and that this is currently the case. Enter a command that enforces it.

ALTER TABLE customers MODIFY rating PRIMARY KEY;

Assignment – 17

##Constraining the Values of your data.

1) Create the Orders table so that all onum values as well as all combinations of cnum and snum are different from one another, and so that NULL values are excluded from the date field.

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```
NUMBER(4), CNUM NUMBER(4),
sname number(4), odate date
NOT NULL, CONSTRAINT p_k_1
PRIMARY key(onum,cnum,sname
) );
```

--Table created.

- 2) Create the Salespeople table so that the default commission is 10% with no NULLS permitted, snum is the primary key, and all names fall alphabetically between A and M, inclusive (assume all names will be uppercase).

```
CREATE TABLE salespeople1 (
comm number(3) DEFAULT 10,
snum number(4) PRIMARY KEY,
sname varchar2(10) check(su
bstr(upper(sname),1,1) BETW
EEN 'A' AND 'B') );
```

--Table created.

```
INSERT INTO salespeople1
VALUES (20,
1212,
'WWW');
```

```
INSERT INTO salespeople1
VALUES (20,
1212,
'WWW')
```

- 3) Create the Orders table, making sure that the onum is greater than the cnum, and the cnum is greater than the snum. Allow no NULLS in any of these three fields.

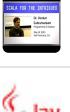
```
CREATE TABLE orders12 ( onu
m number(4), amt number(7,2
), odate date, cnum number(
4), snum number(4), CONSTRA
```

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```
INSERT INTO orders12
```

```
VALUES(10,
      10,
      '12-jan-1990',
      10,
      10);
```

```
INSERT INTO orders12
```

```
VALUES(10,
      10,
      '12-jan-1990',
      10,
      10) --*
```

--ERROR at line 1:

--ORA-02290: check constraint (ORAD178.ON_CN_SN) violated

Assignment – 18

##Maintaining the Integrity of your Data.

1) Create a table called Cityorders. This will contain the same onum, amt and snum fields as the Orders table, and the same cnum and city fields as the Customers table, so that each customer's order will be entered into this table along with his or her city. Onum will be the primary key of Cityorders. All of the fields in Cityorders will be constrained to match the Customers and Orders tables. Assume the parent keys in these tables already have the proper constraints.

```
CREATE TABLE cityorders
```

```
SELECT onum,
      amt,
      snum,
      cnum,
      city
```

```
FROM orders
```

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```
S orders(onum);
DESC cityorders;
```

Name	Null?	Type
ONUM	NOT NULL	NUMBER(4)
AMT		NUMBER(7,2)
SNUM		NUMBER(4)
CNUM		NUMBER(4)
CITY		VARCHAR2(10)

2) Redefine the Orders table as follows:- add a new column called prev,

which will identify, for each order, the onum of the previous order for that current customer.

Implement this with a foreign key referring to the Orders table itself.

The foreign key should refer as well to the cnum of the customer,

providing a definite enforced link between the current order and the one referenced.

```
ALTER TABLE cityorders ADD FOREIGN key(cnum) REFERENCE S customers(cnum);
```

-- Table altered.

```
ALTER TABLE copy_orders ADD FOREIGN key(prev) REFERENCE S copy_orders(onum);
```

-- Table altered.

Remember :

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To rename a column name: alter table cityorders
rename column onum to nonum;

When join two table using natural join you can't
use alias in the where condition.

Aggregate function generally allowed in where
clause it can be used with having in.

To find out how many constraints are available
you can check the user_constraint
dictionary by following query

```
SELECT CONSTRAINT_NAME  
FROM user_constraints;
```

To delete a constraint you cannot delete from the
user_dictionary you have to write

```
ALTER TABLE <TABLE_NAME>  
DROP CONSTRAINT <CONSTRAINT  
_NAME>
```

Assignment – 19

##Views.

1) Create a view that shows all of the customers
who have the highest ratings.

```
CREATE VIEW h_rated_cust AS  
SELECT *  
FROM customers  
WHERE rating=  
(SELECT max(rating)  
FROM customers);
```

--View created.

```
SELECT *
```

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2000 CISTERNS SAN JOSE 500 1000

2) Create a view that shows the number of salespeople in each city.

```
SELECT *
FROM h_rated_cust;
```

```
CREATE VIEW tns_city AS
SELECT city,
       count(city) "NO. OF
SALES PEOPLE"
FROM salespeople
GROUP BY city;
```

--View created.

```
SELECT *
FROM tns_city;
```

CITY	NO. OF SALES PEOPLE
LONDON	2
BARCELONA	1
SAN JOSE	1
SAN JOSE	1
NEWYORK	1

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3) Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.

```
CREATE VIEW AV_TOT_SAL AS
SELECT sname,
       avg(onum) AVERAGE,
       count(onum) "TOTAL O
RERS"
FROM salespeople
JOIN orders using(snum)
GROUP BY sname;
```

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SNAME AVERAGE TOTAL ORDERS

SNAME	AVERAGE	TOTAL ORDERS
Motika	3002	1
Axelrod	3009	1
Peel	3007.33333	3
Serres	3007.33333	3
Rifkin	3003.5	2

4) Create a view that shows each salesperson with multiple customers.

```
CREATE VIEW m_c AS
SELECT sname,
       cname
FROM salespeople
JOIN customers USING (snum
);
```

--View created.

```
SELECT *
FROM M_C;
```

SNAME CNAME

SNAME	CNAME
Peel	Hoffman
Axelrod	Giovanni
Serres	Grass
Peel	Clemens
Rifkin	Cisneros
Serres	Pereira
Serres	Liu

7 rows selected.

HIERARCHICAL QUERY SOLUTION:-

```
SELECT deptno,
       LTRIM(MAX(SYS_CONNECT_BY_PATH(ename, ',')), ',')
) EMP_STRING
```

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```
ORDER BY rnum) rn
    FROM EMP) CONNECT BY dep
tno =
PRIOR deptno
AND rn =
PRIOR rn+1
START WITH rn =1
GROUP BY deptno
ORDER BY deptno;
```

DEPTNO EMP_STRING

```
10 CLARK,KING,MILLER
20 SMITH,JONES,SCOTT,ADAMS,FORD
30 ALLEN,WARD,MARTIN,BLAKE,TURNER,JAMES
```

Assignment – 20

##Changing Values through Views.

1) Which of these views are updateable (will allow DML operations)?

1

```
CREATE VIEW Dailyorders AS
SELECT DISTINCT cnum,
               snum,
               onum,
               odate
FROM Orders;
```

ans: yes

2

```
CREATE VIEW Custtotals AS
SELECT cname,
       SUM (amt) Sum_Amt
FROM Orders.
```

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Ans:

Views are note updatable which consists of join.

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```
CREATE VIEW Thirdorders AS
SELECT *
FROM Dailyorders
WHERE odate='03-OCT-1990';
```

Ans:

not updatable due to distinct keyword in dailyorders;

4

```
CREATE VIEW Nullcities AS
SELECT snum,
       sname,
       city
FROM Salespeople
WHERE city IS NULL
      OR sname BETWEEN 'A' AND
      'M';
```

ans: yes

2) Create a view of the Salespeople table called Commissions. This view will include only the snum and comm fields. Through this view, someone could enter or change commissions, but only to values between .10 and .20.

```
CREATE VIEW commission AS
SELECT snum,
       comm
FROM salespeople
WHERE comm BETWEEN .10 AND
      .20;
```

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SNUM COMM

SNUM	COMM
1001	.12
1002	.13
1004	.11
1007	.15
1003	.1

```
INSERT INTO commission
VALUES(3000,.4);
```

--1 row created.

```
SELECT *
FROM commission;
```

SNUM COMM

SNUM	COMM
1001	.12
1002	.13
1004	.11
1007	.15
1003	.1

```
SELECT *
FROM salespeople;
```

SNUM SNAME CITY COMM

SNUM	SNAME	CITY	COMM
3000			.4
1001	peel	london	.12
1002	serres	san jose	.13
1004	Motika	london	.11
1007	rifkin	barcelona	.15
1003	axelrod	newyork	.1

3) Some SQL implementations have a built-in constant representing the current date, sometimes called "CURDATE" or "SYSDATE". The word CURDATE can therefore be used in a SQL statement, and be

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Orders table, so that CURDATE is automatically inserted for odate if no value is given. Then create the Entryorders view so that no values can be given.

Note:

Suppose if you have a view named view1 on table t

And if you apply another view on this view named view2

And now if you make update on view 2 then it will be made on the table t;

But remember if you have used distinct keyword in base view then the identifier in view2 will be virtual view and they will not allow to update.

Assignment - 21

##Grant and Revoke.

1) Give Amit the right to change the ratings of the customers.

```
GRANT
UPDATE ON customers TO Amit
;
```

```
--Grant succeeded
REVOKE
UPDATE ON customers
FROM Amit ;
```

--Revoke succeeded.

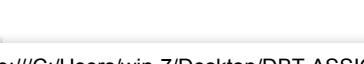
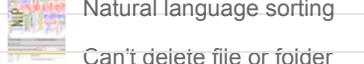
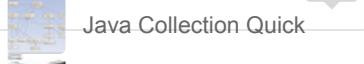
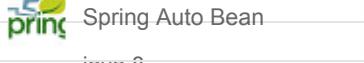
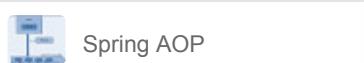
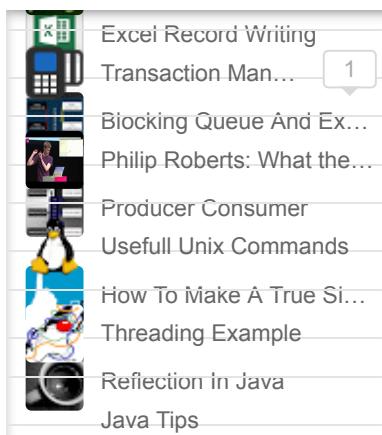
2) Give Manoj the right to give other users the right to query the Orders table.

```
GRANT
SELECT ON orders TO Manoj WITH GRANT OPTION;
```

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--Grant succeeded.

GRANT

UPDATE ON Manoj.orders **TO** S
eema;

--insufficient privileges

- 3) Take the INSERT privilege on Salespeople away from Ajita.

REVOKE

INSERT ON salespeople
FROM Ajita;

- 4) Grant Abhijeet the right to insert or update the Customers table while keeping her possible rating values in the range of 100 to 500.

CREATE OR REPLACE VIEW rang
e100 **AS**
SELECT *
FROM customers
WHERE rating **BETWEEN** 100 **AN**
D 500 **WITH CHECK OPTION;**

--View created.

GRANT

UPDATE ON range100 **TO** Ajita
;

INSERT INTO range100
VALUES(3000,
'rakesh',
'bikaner',
700,
7888);

INSERT INTO range100
VALUES(3000,
'rakesh',
'bikaner',
700,

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5) Allow Vikram to query the Customers table, but restrict his access to those customers whose rating is the lowest.

```
CREATE OR REPLACE VIEW restrictmin AS
SELECT *
FROM customers
WHERE rating NOT IN
    (SELECT min(rating)
     FROM customers);
```

--View created.

GRANT

```
SELECT ON restrictmin TO Vikaram;
```

Assignment -22

##Global Aspects of SQL.

1) Create a database space (tablespace) called "Myspace" and make it the default tablespace for Parag's tables.

```
CREATE tablespace Myspace d
atafile 'd:mytablespace' au
toextend OFF;
```

```
CREATE USER Parag idntied B
Y pass DEFAULT tablespace M
yspace;
```

2) You have been granted SELECT on Ajita's Orders table. Enter a command so that you will be able to refer to this table as "Orders" without using the name "Ajita" as a prefix.

```
CREATE DATABASE link eu_db
```

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transaction?

If transaction is not committed or completed it will be rollbacked to previous savepoint.

Assignment -23

##Keeping your Database in order.

1) Query the catalog to produce, for each table with more than 4 columns, the table's name, the owner, and the names and datatypes of the columns.

2) Query the catalog to find out how many synonyms exist for each table in the database. Remember that the same synonym owned by 2 different users are in effect 2 different synonyms.

3) Find out how many tables have indexes on more than 50% of their columns.

Assignment -24

some extra queries

1) Query to alter column's nullable property in sql

```
DECLARE l_nullable varchar2(1);

BEGIN
SELECT NULLABLE INTO l_nullable
FROM user_tab_columns
WHERE TABLE_NAME = 'PV_REPO
RT_DETAILS'
AND COLUMN_NAME = 'FEED_I
D';
```

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END IF;

```
SELECT NULLABLE INTO l_nullable
FROM user_tab_columns
WHERE TABLE_NAME = 'PV_REPO
RT_DETAILS'
AND COLUMN_NAME = 'CURREN
T_RUN_ID';
```

```
IF l_nullable = 'Y' THEN E
XECUTE IMMEDIATE 'alter tab
le PV_REPORT_DETAILS modify
(Current_Run_ID not null)';
```

END IF;

```
SELECT NULLABLE INTO l_nullable
FROM user_tab_columns
WHERE TABLE_NAME = 'PV_REPO
RT_DETAILS'
AND COLUMN_NAME = 'PREVIO
US_RUN_ID';
```

```
IF l_nullable = 'Y' THEN E
XECUTE IMMEDIATE 'alter tab
le PV_REPORT_DETAILS modify
(Previous_Run_ID not null)'
;
```

END IF;

END;

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Assignment 14 Question 4 query is wrong. On the set command motika will be used and in the where clause serese will be used.

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 **Sai Institutions** April 24, 2019 at 5:30 AM

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