

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.

ANS:- select onum,cname from orders natural join customers;
select onum,cname from orders join customers using (snum)

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

ANS:-

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

OR

```
SELECT UNIQUE sname,cname, onum
FROM (salesperson JOIN orders USING (snum))
JOIN customers USING (cnum)
```

SNAME	CNAME	ONUM
Motika	GRASS	3010
Rifkin	CISNEROS	3012

- 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.

Ans
select cname,sname,comm
from customers join salespeople using (snum)
where comm > .12

O/P:-

CNAME	SNAME	COMM
GRASS	Motika	.23
CISNEROS	Motika	.23
PEREIRA	XYZ	.21
VISHU	XYZ	.21
LIU	Motika	.23

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

Ans:

```
SELECT c.cname, o.onum,s.sname, s.comm*o.amt
FROM (orders o JOIN salespeople s USING(snum)) JOIN customers c USING(cnum)
WHERE cnum IN
(SELECT cnum
FROM customers
WHERE rating > 100)
```

CNAME	ONUM	SNAME	S.COMM*O.AMT
GRASS	3010	XYZ	8692.82
PEREIRA	3002	XYZ	779.041
GRASS	3010	Serres	432.2835
LIU	3005	Serres	1702.9485
CISNEROS	3012	Motika	1720
CISNEROS	3001	Motika	8.0367
CISNEROS	3012	Motika	1290
CISNEROS	3012	Motika	860
CISNEROS	3012	Motika	430
CISNEROS	3006	Motika	472.2088