USN:1BM19CS216

PROGRAM 6: ORDER DATABASE

SALESMAN (Salesman_id, Name, City, Commission)
CUSTOMER (Customer_id, Cust_Name, City, Grade, Salesman_id)
ORDERS (Ord_No, Purchase_Amt, Ord_Date, Customer_id, Salesman_id)
Write SQL queries to

- 1. Count the customers with grades above Bangalore's average.
- 2. Find the name and numbers of all salesmen who had more than one customer.
- 3. List all salesmen and indicate those who have and don't have customers in their cities (Use UNION operation.)
- 4. Create a view that finds the salesman who has the customer with the highest order of a day.

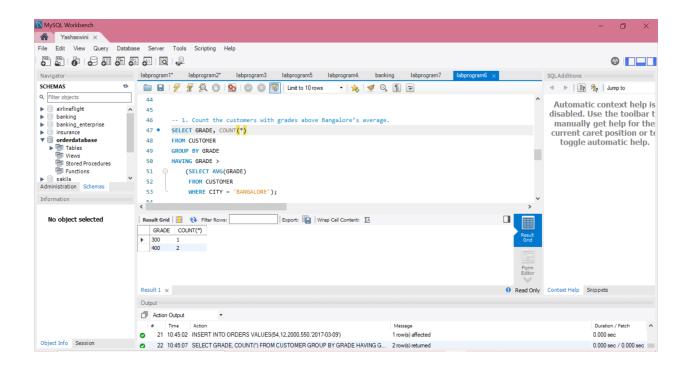
CREATE DATABASE ORDERDATABASE; **USE ORDERDATABASE: CREATE TABLE SALESMAN(** SALESMANID INT, SNAME VARCHAR(30), CITY VARCHAR(30), COMMISSION VARCHAR(30), PRIMARY KEY (SALESMANID)); CREATE TABLE CUSTOMER(CUSTOMERID INT. SALESMANID INT. CNAME VARCHAR(30), CITY VARCHAR(20), GRADE INT, PRIMARY KEY (CUSTOMERID), FOREIGN KEY (SALESMANID) REFERENCES SALESMAN(SALESMANID)); CREATE TABLE ORDERS(ORDERNO INT, CUSTOMERID INT. SALESMANID INT, PURCHASEAMT INT, ORDERDATE DATE, PRIMARY KEY (ORDERNO), FOREIGN KEY (SALESMANID) REFERENCES SALESMAN(SALESMANID),

FOREIGN KEY (CUSTOMERID) REFERENCES CUSTOMER(CUSTOMERID));

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INSERT INTO SALESMAN VALUES(1000,'JOHN','BANGALORE','25%');
INSERT INTO SALESMAN VALUES(2000,'RAVI','BANGALORE','20%');
INSERT INTO SALESMAN VALUES(3000,'KUMAR','MYSORE','15%');
INSERT INTO SALESMAN VALUES(4000,'SMITH','DELHI','30%');
INSERT INTO SALESMAN VALUES(5000,'HARSHA','HYDERABAD','15%');
INSERT INTO CUSTOMER VALUES(10,1000,'PREETHI','BANGALORE',100);
INSERT INTO CUSTOMER VALUES(11,2000,'VIVEK','MANGALORE',300);
INSERT INTO CUSTOMER VALUES(12,2000,'BHASKAR','CHENNAI',400);
INSERT INTO CUSTOMER VALUES(13,3000,'CHETAN','BANGALORE',200);
INSERT INTO CUSTOMER VALUES(14,2000,'MAMTHA','BANGALORE',400);
INSERT INTO ORDERS VALUES(50,10,1000,5000,'2017-05-04');
INSERT INTO ORDERS VALUES(51,10,2000,450,'2017-01-20');
INSERT INTO ORDERS VALUES(52,13,2000,1000,'2017-02-24');
INSERT INTO ORDERS VALUES(53,14,3000,3500,'2017-04-13');
INSERT INTO ORDERS VALUES(54,12,2000,550,'2017-03-09');
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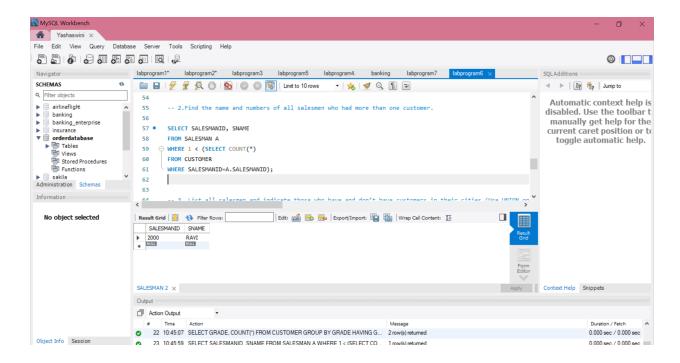
-- 1. Count the customers with grades above Bangalore's average.

SELECT GRADE, COUNT(*)
FROM CUSTOMER
GROUP BY GRADE
HAVING GRADE >
(SELECT AVG(GRADE)
FROM CUSTOMER
WHERE CITY = 'BANGALORE');



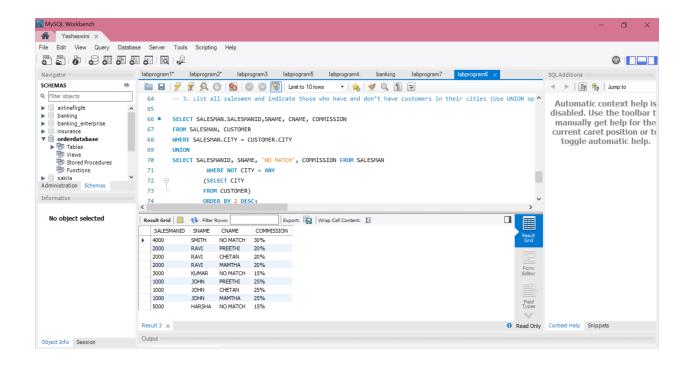
-- 2.Find the name and numbers of all salesmen who had more than one customer.

SELECT SALESMANID, SNAME FROM SALESMAN A WHERE 1 < (SELECT COUNT(*) FROM CUSTOMER WHERE SALESMANID=A.SALESMANID);



-- 3. List all salesmen and indicate those who have and don't have customers in their cities (Use UNION operation.)

SELECT SALESMAN.SALESMANID,SNAME, CNAME, COMMISSION
FROM SALESMAN, CUSTOMER
WHERE SALESMAN.CITY = CUSTOMER.CITY
UNION
SELECT SALESMANID, SNAME, 'NO MATCH', COMMISSION FROM SALESMAN
WHERE NOT CITY = ANY
(SELECT CITY
FROM CUSTOMER)
ORDER BY 2 DESC;



-- 4. Create a view that finds the salesman who has the customer with the highest order of a day.

CREATE VIEW VIEWSALESMAN AS
SELECT B.ORDERDATE, A.SALESMANID, A.SNAME
FROM SALESMAN A, ORDERS B
WHERE A.SALESMANID = B.SALESMANID
AND B.PURCHASEAMT=(SELECT MAX (PURCHASEAMT)
FROM ORDERS C
WHERE C.ORDERDATE = B.ORDERDATE);

