**Assignment 2**

* **Creating Database:**

CREATE DATABASE sales\_db

* **Creating Tables**

1. Salesman

CREATE TABLE salesman(

salesman\_id INT PRIMARY KEY,

name VARCHAR(40),

city VARCHAR(15),

commission FLOAT NOT NULL

);

1. Customer

CREATE TABLE customer(

customer\_id INT PRIMARY KEY,

cust\_name VARCHAR(40),

city VARCHAR(15),

grade INT NOT NULL,

salesman\_id int,

FOREIGN KEY (salesman\_id) REFERENCES salesman(salesman\_id)

);

1. Orders

CREATE TABLE orders(

order\_no INT PRIMARY KEY,

purch\_amt FLOAT NOT NULL,

ord\_date DATE,

customer\_id INT,

salesman\_id INT,

FOREIGN KEY (customer\_id) REFERENCES customer(customer\_id),

FOREIGN KEY (salesman\_id) REFERENCES salesman(salesman\_id)

);

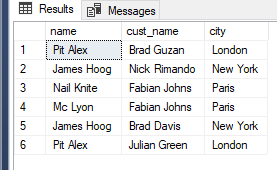
* **Queries**

1. SELECT S.name, C.cust\_name, S.city

FROM salesman S

JOIN customer C

ON S.city = C.city



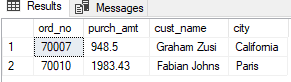
1. SELECT O.ord\_no, O.purch\_amt, C.cust\_name, C.city

FROM orders O

JOIN customer C

ON O.customer\_id = C.customer\_id

WHERE purch\_amt > 500 AND purch\_amt < 2000;



1. SELECT C.cust\_name AS "Customer Name",

C.city,

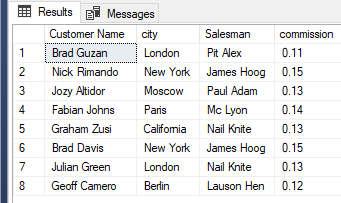
S.name AS "Salesman",

S.commission

FROM salesman S

JOIN customer C

ON S.salesman\_id = C.salesman\_id



1. SELECT C.cust\_name AS "Customer Name",

C.city,

S.name AS "Salesman",

S.commission

FROM salesman S

JOIN customer C

ON S.salesman\_id = C.salesman\_id

WHERE S.commission > 0.12



5)

SELECT C.cust\_name AS "Customer Name",

C.city,

S.name AS "Salesman",

S.city,

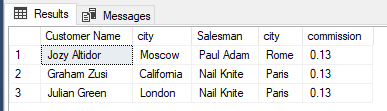
S.commission

FROM salesman S

JOIN customer C

ON S.salesman\_id = C.salesman\_id

WHERE S.commission > 0.12 AND S.city != c.city



6)

SELECT O.ord\_no, O.ord\_date,

O.purch\_amt,

C.cust\_name AS "Customer Name",

C.grade,

S.name AS "Salesman",

S.commission

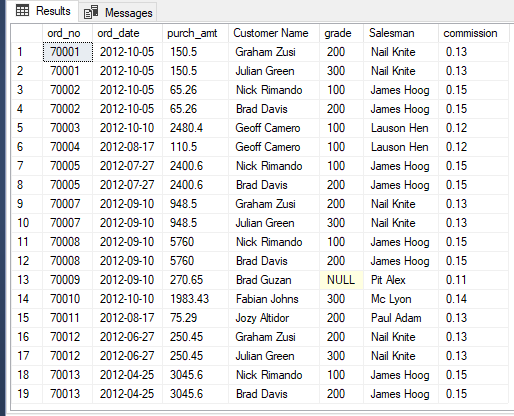
FROM salesman S

JOIN customer C

ON S.salesman\_id = C.salesman\_id

JOIN orders O

ON S.salesman\_id = O.salesman\_id;



7)

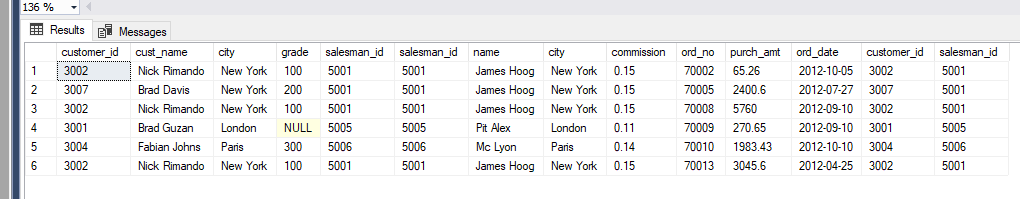
SELECT \*

FROM customer C, salesman S, orders O

WHERE C.salesman\_id = S.salesman\_id

AND C.customer\_id = O.customer\_id

AND C.city = S.city;



8) SELECT C.cust\_name AS "Customer Name",

C.city,

C.grade,

S.name AS "Salesman",

S.city

FROM salesman S

JOIN customer C

ON S.salesman\_id = C.salesman\_id

ORDER BY C.customer\_id



9)

SELECT C.cust\_name AS "Customer Name",

C.city,

C.grade,

S.name AS "Salesman",

S.city

FROM salesman S

JOIN customer C

ON S.salesman\_id = C.salesman\_id

WHERE C.grade < 300

ORDER BY C.customer\_id;



10)

SELECT C.cust\_name AS "Customer Name",

C.city,

O.ord\_no,

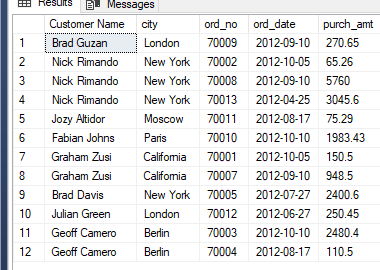
O.ord\_date,

O.purch\_amt

FROM customer C

LEFT JOIN orders O

ON C.customer\_id = O.customer\_id



11)

SELECT C.cust\_name AS "Customer Name",

C.city,

O.ord\_no,

O.ord\_date,

O.purch\_amt,

S.name,

S.commission

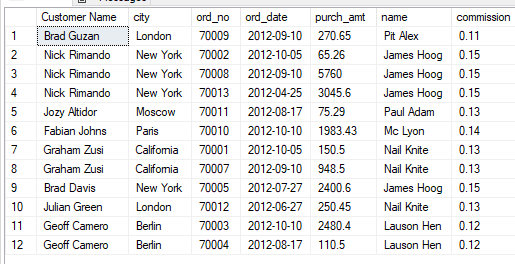
FROM customer C

LEFT JOIN orders O

ON C.customer\_id = O.customer\_id

LEFT JOIN salesman S

ON C.salesman\_id = S.salesman\_id;



12)

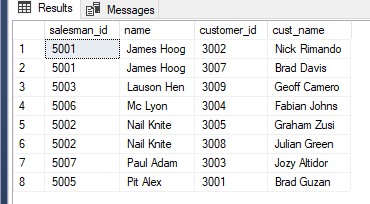
SELECT S.salesman\_id, S.name, C.customer\_id, C.cust\_name

FROM salesman S

LEFT JOIN customer C

ON C.salesman\_id = S.salesman\_id

ORDER BY S.name;



13)

SELECT S.name,

C.cust\_name,

C.city,

C.grade,

O.ord\_no,

O.ord\_date,

O.purch\_amt

FROM salesman S

JOIN customer C

ON S.salesman\_id = c.salesman\_id

JOIN orders O

ON C.customer\_id = O.customer\_id;



14)

SELECT S.salesman\_id, S.name, C.customer\_id, O.ord\_no, purch\_amt

FROM salesman S

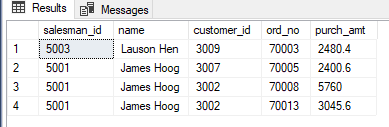
LEFT JOIN customer C

ON C.salesman\_id = S.salesman\_id

LEFT JOIN orders O

ON O.customer\_id = C.customer\_id

WHERE O.purch\_amt > 2000 AND C.grade IS NOT NULL;



15) Same as 14

16)

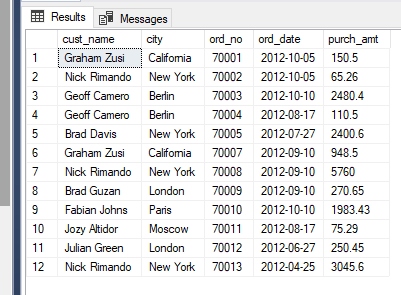
SELECT C.cust\_name, C.city,

O.ord\_no, O.ord\_date, O.purch\_amt

FROM customer C

RIGHT JOIN orders O

ON C.customer\_id = O.customer\_id;

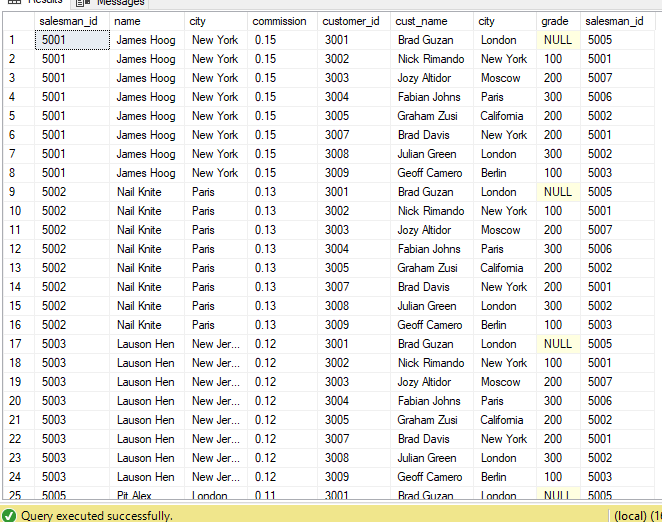


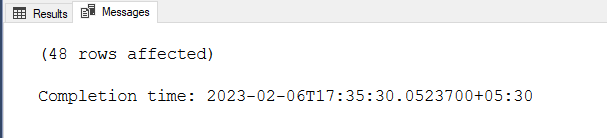
17)

SELECT \*

FROM salesman

CROSS JOIN customer;





18)

SELECT \*

FROM salesman S

CROSS JOIN customer C

WHERE S.city IS NOT NULL;

OUTPUT SAME AS 17

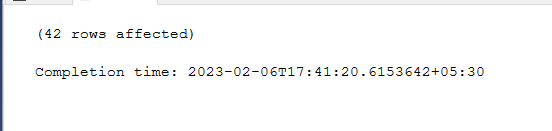
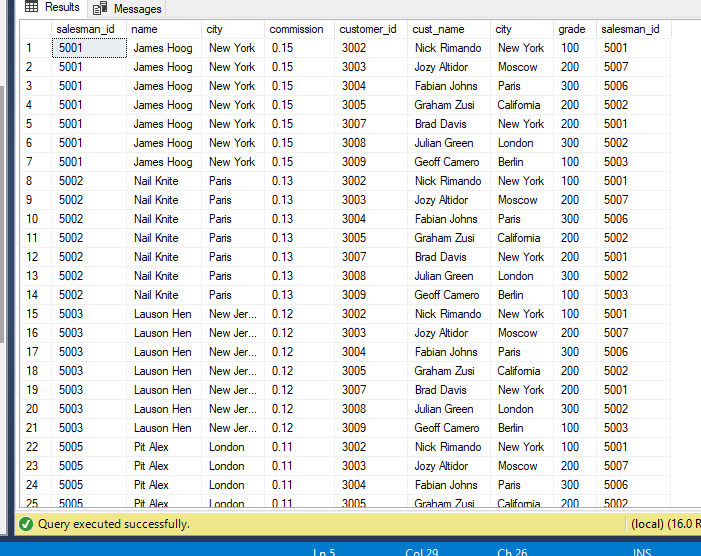
19)SELECT \*

FROM salesman S

CROSS JOIN customer C

WHERE S.city IS NOT NULL

AND C.grade IS NOT NULL;



20)

SELECT \*

FROM salesman S

CROSS JOIN customer C

WHERE S.city IS NOT NULL

AND C.grade IS NOT NULL

AND S.city != C.city;

