IS607 Week 03 Assignment

Four Tables and SQL Code

Table 1: Customer Table

|  |  |  |
| --- | --- | --- |
| Customer\_id | Full\_Name | Region\_id |
| 101 | Amy One | 2 |
| 102 | Bart Two | 3 |
| 103 | Carol Three | 1 |
| 104 | Dana Four | 1 |
| 105 | Eric Five | 1 |

Table 2: Orders Table

|  |  |  |  |
| --- | --- | --- | --- |
| Order\_id | Customer\_id | Order\_dollars | Product\_id |
| 111 | 102 | 30 | 1 |
| 222 | 103 | 40 | 2 |
| 333 | 102 | 50 | 2 |
| 444 | 105 | 60 | 3 |

Table 3: Products Table

|  |  |
| --- | --- |
| Product\_id | Product\_Description |
| 1 | Clothes |
| 2 | Shoes |
| 3 | Jewelry |

Table 4: Region Table

|  |  |
| --- | --- |
| Region\_id | Region\_description |
| 1 | Northeast |
| 2 | Middlewest |
| 3 | West |
| 4 | Southwest |
| 5 | Southeast |

**SQL Code:**

DROP TABLE IF EXISTS tbl\_customer;

DROP TABLE IF EXISTS tbl\_orders;

DROP TABLE IF EXISTS tbl\_products;

DROP TABLE IF EXISTS tbl\_region;

CREATE TABLE tbl\_customer (customer\_id int PRIMARY KEY, full\_name varchar NOT NULL, region\_id int );

INSERT INTO tbl\_customer (customer\_id, full\_name, region\_id) VALUES ( 101, 'Amy One',2);

INSERT INTO tbl\_customer (customer\_id, full\_name, region\_id) VALUES ( 102, 'Bart Two',3);

INSERT INTO tbl\_customer (customer\_id, full\_name, region\_id) VALUES ( 103, 'Carol Three',1);

INSERT INTO tbl\_customer (customer\_id, full\_name, region\_id) VALUES ( 104, 'Dana Four',1);

INSERT INTO tbl\_customer (customer\_id, full\_name, region\_id) VALUES ( 105, 'Eric Five',1);

SELECT \* FROM tbl\_customer;

CREATE TABLE tbl\_region ( region\_id int PRIMARY KEY, region\_description VARCHAR NOT NULL);

INSERT INTO tbl\_region(region\_id, region\_description) VALUES (1, 'Northeast');

INSERT INTO tbl\_region(region\_id, region\_description) VALUES (2, 'Middlewest');

INSERT INTO tbl\_region(region\_id, region\_description) VALUES (3, 'West');

INSERT INTO tbl\_region(region\_id, region\_description) VALUES (4, 'Southwest');

INSERT INTO tbl\_region(region\_id, region\_description) VALUES (5, 'Southeast');

SELECT \* FROM tbl\_region;

CREATE TABLE tbl\_orders (order\_id int PRIMARY KEY, customer\_id int, order\_dollars int, product\_id int);

INSERT INTO tbl\_orders (order\_id, customer\_id, order\_dollars, product\_id) VALUES ( 111,102,30,1 );

INSERT INTO tbl\_orders (order\_id, customer\_id, order\_dollars, product\_id) VALUES ( 222,103,40,2);

INSERT INTO tbl\_orders (order\_id, customer\_id, order\_dollars, product\_id) VALUES ( 333,102,50,2);

INSERT INTO tbl\_orders (order\_id, customer\_id, order\_dollars, product\_id) VALUES ( 444,105,60,3);

SELECT \* FROM tbl\_orders;

CREATE TABLE tbl\_products ( product\_id int PRIMARY KEY, product\_description VARCHAR NOT NULL);

INSERT INTO tbl\_products(product\_id, product\_description) VALUES (1, 'Clothes');

INSERT INTO tbl\_products(product\_id, product\_description) VALUES (2, 'Shoes');

INSERT INTO tbl\_products(product\_id, product\_description) VALUES (3, 'Jewelry');

SELECT \* FROM tbl\_products;

**One to Many Join**

SELECT \* FROM tbl\_region r

INNER JOIN tbl\_customer c

ON r.region\_id = c.region\_id

ORDER BY region\_description;

**Many to Many Join**

SELECT \* FROM tbl\_customer c

INNER JOIN tbl\_orders o

ON c.customer\_id=o.customer\_id

INNER JOIN tbl\_products p

ON o.product\_id=p.product\_id

ORDER BY p.product\_id