```
/*
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Project 6: Queries that modify data using
certain keywords
*/
USE TSQLV4
```

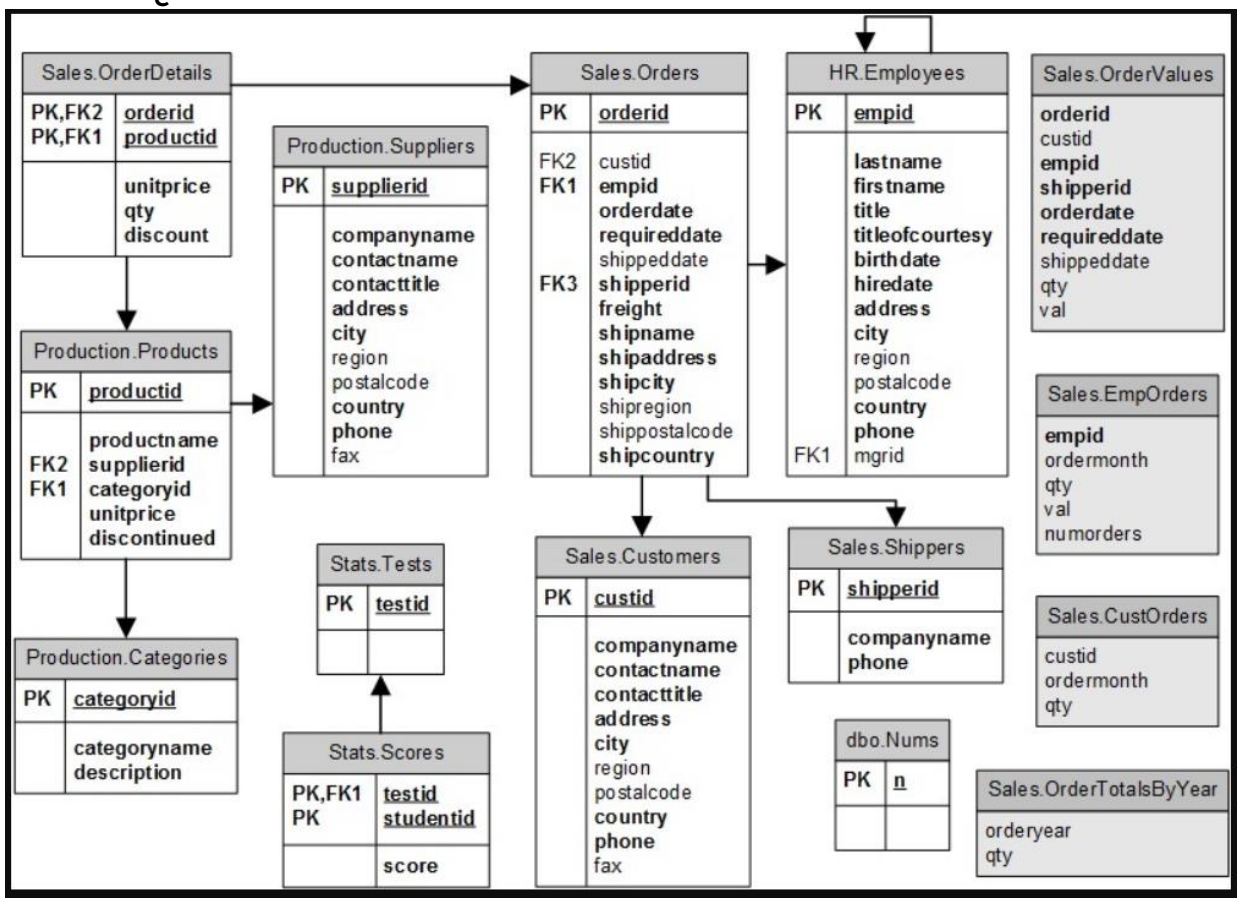

```
/*
Query # 0: First Create an Orders table in the dbo
schema that would be used for data modification
*/

--DROP TABLE IF EXISTS dbo.OrderDetails

DROP TABLE IF EXISTS dbo.Orders;

CREATE TABLE dbo.Orders
(
    orderid     INT             NOT NULL
        CONSTRAINT PK_Orders PRIMARY KEY,
    orderdate   DATE        NOT NULL
        CONSTRAINT DET_orderdate DEFAULT
(SYSDATETIME()),
    empid       INT             NOT NULL,
    custid      VARCHAR(10)     NOT NULL
);


/*
Query # 1: How to insert a single row of values
*/

INSERT INTO  dbo.Orders (orderid, orderdate, empid,
custid)
    VALUES(10001, '20160212', 3, 'A');
```

```
/*
Query # 2: Inserting multiple values
*/

INSERT INTO dbo.Orders

    (orderid, orderdate, empid, custid)
VALUES
      (10003, '20160213', 4, 'B'),
      (10004, '20160214', 1, 'A'),
      (10005, '20160213', 1, 'C'),
      (10006, '20160215', 3, 'C');


/*
Query # 3: Using the INSERT SELECT statement
*/

INSERT INTO dbo.Orders(orderid, orderdate, empid,
custid)
    SELECT orderid, orderdate, empid, custid
    FROM Sales.Orders
    WHERE shipcountry = N'UK';


/*
Query # 4: Using INSERT EXEC to insert results
returned from a stored procedure or dynamic sql
*/

DROP PROC IF EXISTS Sales.GetOrders;
GO

CREATE PROC Sales.GetOrders
```

```
  @country AS NVARCHAR(40)
AS

SELECT orderid, orderdate, empid, custid
FROM Sales.Orders
WHERE shipcountry = @country;
GO

-- use this to test the stored procedure: EXEC
Sales.GetOrders @country = N'France';

INSERT INTO dbo.Orders(orderid, orderdate, empid,
custid)
  EXEC Sales.GetOrders @country = N'France';

/*
Query # 5: Use SELECT INTO to populate a created
table with the results of a query
*/

DROP TABLE IF EXISTS dbo.Orders;

SELECT orderid, orderdate, empid, custid
INTO dbo.Orders
FROM Sales.Orders;

/*
Query # 6: SELECT INTO can be used with the results
of a set operator
*/

DROP TABLE IF EXISTS dbo.Locations;

SELECT country, region, city
```

```
INTO dbo.Locations
FROM Sales.Customers

EXCEPT

SELECT country, region, city
FROM HR.Employees;

/*
 Create the T1 table
*/

DROP TABLE IF EXISTS dbo.T1;

CREATE TABLE dbo.T1
(
  keycol  INT         NOT NULL IDENTITY(1, 1)
    CONSTRAINT PK_T1 PRIMARY KEY,
  datacol VARCHAR(10) NOT NULL
    CONSTRAINT CHK_T1_datacol CHECK(datacol LIKE
'[ABCDEFGHIJKLMNOPQRSTUVWXYZ]%')
);

INSERT INTO dbo.T1(datacol)
VALUES('AAAAA'),('CCCCC'),('BBBBB'), ('EEEEE');

SET IDENTITY_INSERT dbo.T1 ON;
INSERT INTO dbo.T1(keycol, datacol) VALUES(5,
'FFFFF');
SET IDENTITY_INSERT dbo.T1 OFF;

INSERT INTO dbo.T1(datacol) VALUES('GGGGG');
```

```
/*
Query # 7: Use DELETE statement to delete a row of
data
*/

DELETE FROM dbo.T1
WHERE datacol = 'AAAAA';

/*
Query # 8: Use TRUNCATE to delete all rows from the
data this statement has no filter
*/

TRUNCATE TABLE dbo.T1;


/*
Create a table that will be subsequently used with
UPDATE statement
*/

DROP TABLE IF EXISTS dbo.OrderDetails, dbo.Orders;

CREATE TABLE dbo.Orders
(
  orderid        INT          NOT NULL,
  custid         INT          NULL,
  empid          INT          NOT NULL,
  orderdate      DATE         NOT NULL,
  requireddate   DATE         NOT NULL,
  shippeddate    DATE         NULL,
  shipperid      INT          NOT NULL,
  freight        MONEY        NOT NULL
    CONSTRAINT DFT_Orders_freight DEFAULT(0),
```

```
  shipname       NVARCHAR(40) NOT NULL,
  shipaddress    NVARCHAR(60) NOT NULL,
  shipcity       NVARCHAR(15) NOT NULL,
  shipregion     NVARCHAR(15) NULL,
  shippostalcode NVARCHAR(10) NULL,
  shipcountry    NVARCHAR(15) NOT NULL,
  CONSTRAINT PK_Orders PRIMARY KEY(orderid)
);

CREATE TABLE dbo.OrderDetails
(
  orderid   INT           NOT NULL,
  productid INT           NOT NULL,
  unitprice MONEY         NOT NULL
    CONSTRAINT DFT_OrderDetails_unitprice
DEFAULT(0),
  qty       SMALLINT      NOT NULL
    CONSTRAINT DFT_OrderDetails_qty DEFAULT(1),
  discount  NUMERIC(4, 3) NOT NULL
    CONSTRAINT DFT_OrderDetails_discount DEFAULT(0),
  CONSTRAINT PK_OrderDetails PRIMARY KEY(orderid,
productid),
  CONSTRAINT FK_OrderDetails_Orders FOREIGN
KEY(orderid)
    REFERENCES dbo.Orders(orderid),
  CONSTRAINT CHK_discount  CHECK (discount BETWEEN 0
AND 1),
  CONSTRAINT CHK_qty  CHECK (qty > 0),
  CONSTRAINT CHK_unitprice CHECK (unitprice >= 0)
);
GO

INSERT INTO dbo.Orders SELECT * FROM Sales.Orders;
```

```
INSERT INTO dbo.OrderDetails SELECT * FROM
Sales.OrderDetails;

/*
Query # 9:
*/

UPDATE dbo.OrderDetails
  SET discount = discount + 0.05
WHERE productid = 51;

/*
Query # 10: Update the discount column where product
id is 51
*/

UPDATE dbo.OrderDetails
  SET discount += 0.05
WHERE productid = 51;


/*
EXTRA Query: All-at-once operations
*/

UPDATE dbo.T1
  SET col1 = col1 + 10, col2 = col1 + 10;
```