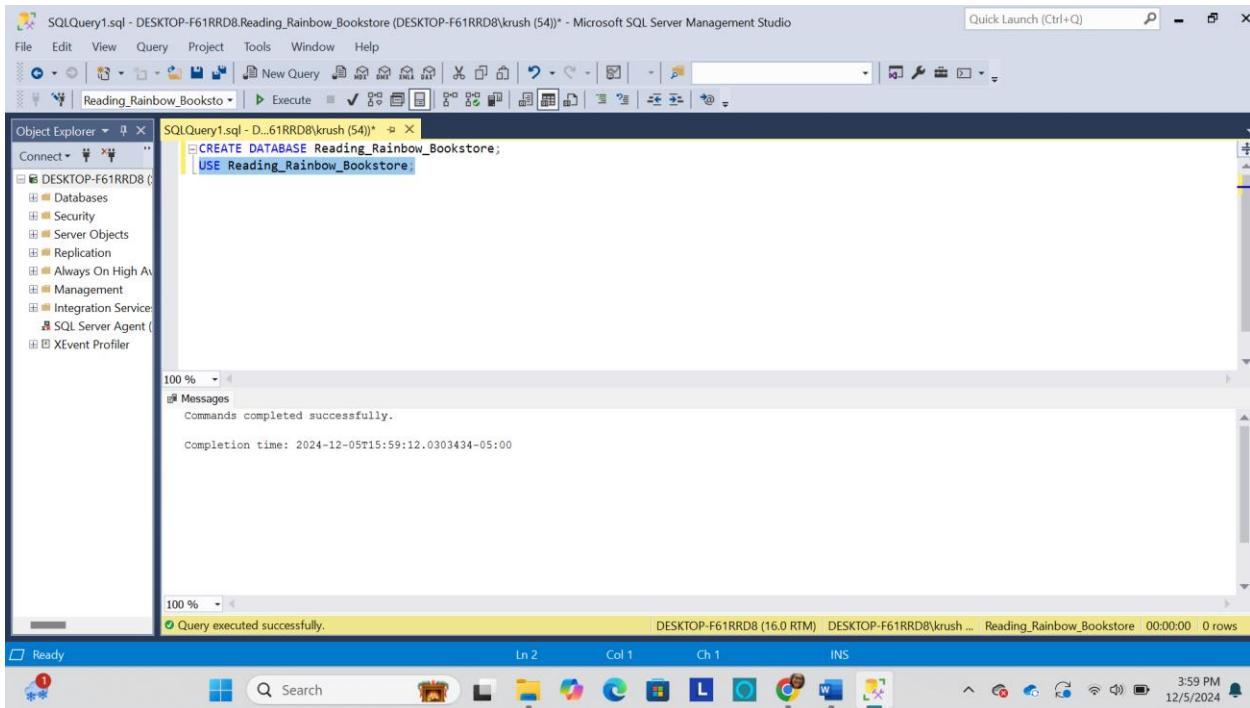
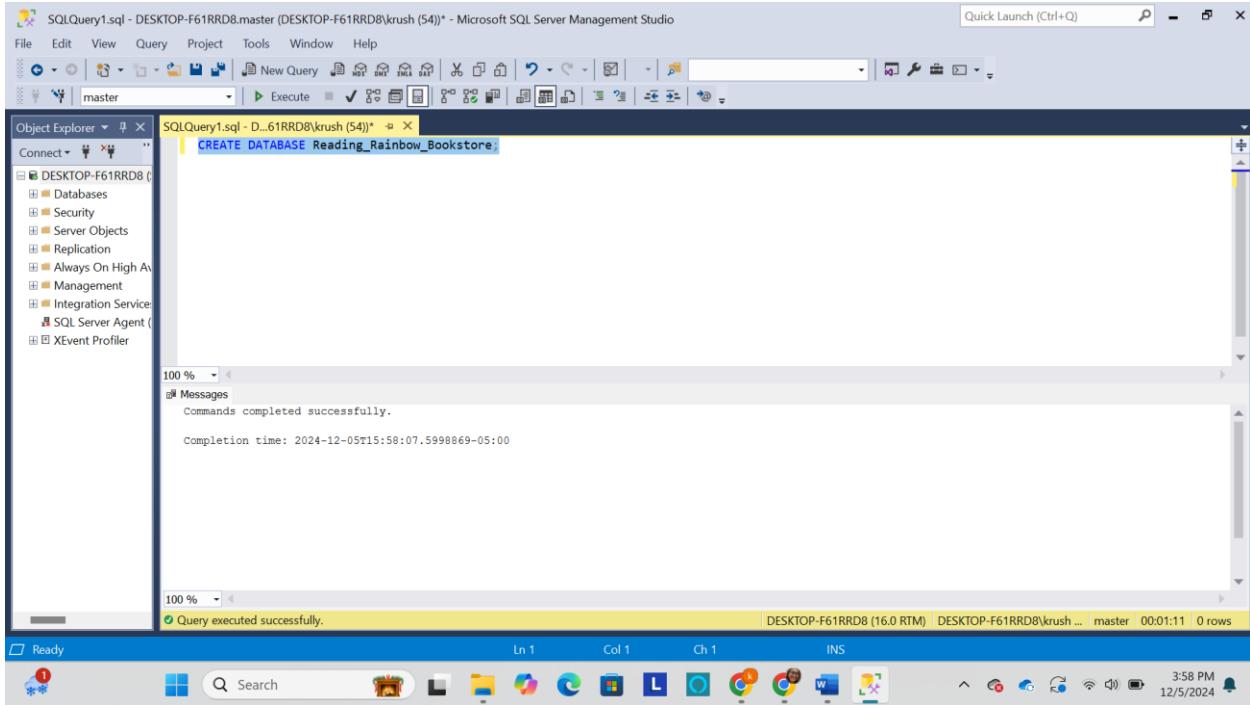


## **Reading Rainbow Bookstore**



SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | Quick Launch (Ctrl+Q)

Object Explorer

CREATE DATABASE Reading\_Rainbow\_Bookstore;

USE Reading\_Rainbow\_Bookstore;

Create Table Branch (

BRANCH\_NUM Int Primary Key,

BRANCH\_NAME Varchar(50),

BRANCH\_LOCATION Varchar(100),

NUM\_EMPLOYEES Int

);

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T16:03:41.7069120-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Ln 9 Col 3 Ch 3 INS

4:03 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | Quick Launch (Ctrl+Q)

Object Explorer

;) ;

INSERT INTO Branch VALUES

(1, 'Books Downtown', '487 E 5th Street', 10),

(2, 'Books On The Hill', '7783 Ridgewood Drive', 8),

(3, 'Books On the Eastshore', '25224 Lake Shore Blvd', 20),

(4, 'Books In Brooklyn', '2159 Fulton Road', 15);

100 %

Messages

(4 rows affected)

Completion time: 2024-12-05T16:05:19.9685900-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Ln 15 Col 54 Ch 54 INS

4:05 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer | SQLQuery1.sql - DESKTOP-F61RRD8\krush (54)\* |

```
INSERT INTO Branch VALUES
    (1, 'Books Downtown', '487 E 5th Street', 10),
    (2, 'Books On The Hill', '7783 Ridgewood Drive', 8),
    (3, 'Books On The Eastshore', '25224 Lake Shore Blvd', 20),
    (4, 'Books In Brooklyn', '2159 Fulton Road', 15);

Create Table Publisher (
    PUB_CODE Varchar(18) Primary Key,
    PUB_NAME Varchar(50),
    PUB_CITY Varchar(50)
);
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T16:09:11.2720207-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Ln 17 Col 1 Ch 1 INS

4:09 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer | SQLQuery1.sql - DESKTOP-F61RRD8\krush (54)\* |

```
('PU', 'Putnam Publishing Company', 'New York'),
('RH', 'Random House', 'New York'),
('SB', 'Schoken Books', 'New York'),
('SC', 'Scribner', 'New York'),
('SS', 'Simon & Schuster', 'New York'),
('ST', 'Scholastic Trade', 'New York'),
('TA', 'Taunton Press', 'Newtown CT'),
('TB', 'Tor Books', 'New York'),
('TH', 'Thames and Hudson', 'New York'),
('TO', 'Touchstone Books', 'Westport CT'),
('VB', 'Vintage Books', 'New York'),
('WN', 'W.W. Norton', 'New York'),
('WP', 'Westview Press', 'Boulder CO');
```

100 %

Messages

(28 rows affected)

Completion time: 2024-12-05T16:12:12.9908512-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Ln 51 Col 44 Ch 41 INS

4:12 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

Connect

DESKTOP-F61RRD8

- Databases
- Security
- Server Objects
- Replication
- Always On High Av
- Management
- Integration Service
- SQL Server Agent
- XEvent Profiler

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
CREATE TABLE Book (
    BOOK_CODE Varchar(10) PRIMARY KEY,
    TITLE Varchar(100),
    PUB_CODE Varchar(10) Foreign Key References Publisher(PUB_CODE),
    BOOK_GENRE Varchar(10),
    PRICE Decimal(10, 2),
    PAPERBACK Varchar(3)
)
```

Messages

Commands completed successfully.

Completion time: 2024-12-05T16:16:35.1679041-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Ln 60 Col 3 Ch 3 INS

4:16 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

Connect

DESKTOP-F61RRD8

- Databases
- Security
- Server Objects
- Replication
- Always On High Av
- Management
- Integration Service
- SQL Server Agent
- XEvent Profiler

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
(7443, 'Harry Potter and the Goblet of Fire', 'SI', 'SFI', 27.95, 'Yes'),
('7559', 'The Fall', 'VB', 'FIC', 12.95, 'Yes'),
('8092', 'Godel, Escher, Bach', 'BA', 'PHI', 19.99, 'Yes'),
('8720', 'Wheel, Rabbit Howls', 'JP', 'PSY', 9.99, 'Yes'),
('9611', 'Black House', 'RH', 'HOR', 24.95, 'No'),
('9627', 'Song of Solomon', 'PL', 'FIC', 19.99, 'Yes'),
('9701', 'The Grapes of Wrath', 'PE', 'FIC', 19.95, 'Yes'),
('9882', 'Slay Ride', 'JP', 'MYS', 9.95, 'Yes'),
('9883', 'The Catcher in the Rye', 'LB', 'FIC', 10.99, 'Yes'),
('9931', 'To Kill a Mockingbird', 'HC', 'FIC', 27.95, 'No')
```

Messages

(33 rows affected)

Completion time: 2024-12-05T16:18:20.8049839-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Ln 95 Col 65 Ch 62 INS

4:18 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

```
Object Explorer
Connect
DESKTOP-F61RRD8
  Databases
  Security
  Server Objects
  Replication
  Always On High Av
  Management
  Integration Service
  SQL Server Agent
  XEvent Profiler

SQLQuery1.sql - D...61RRD8\krush (54)*
Create Table Author (
  AUTHOR_NUM Int PRIMARY KEY,
  LAST_NAME Varchar(50),
  FIRST_NAME Varchar(50)
)

Commands completed successfully.

Completion time: 2024-12-05T16:21:29.7031659-05:00
```

100 %

Messages

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) | DESKTOP-F61RRD8\krush ... | Reading\_Rainbow\_Bookstore | 00:00:00 | 0 rows

Ready

Ln 101 Col 3 Ch 3 INS

4:21 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

```
Object Explorer
Connect
DESKTOP-F61RRD8
  Databases
  Security
  Server Objects
  Replication
  Always On High Av
  Management
  Integration Service
  SQL Server Agent
  XEvent Profiler

SQLQuery1.sql - D...61RRD8\krush (54)*
Insert Into Author (LAST_NAME, FIRST_NAME)
Select LAST_NAME, FIRST_NAME
From Book
Where FIRST_NAME Is Null

(25 rows affected)

Completion time: 2024-12-05T16:22:49.9823689-05:00
```

100 %

Messages

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) | DESKTOP-F61RRD8\krush ... | Reading\_Rainbow\_Bookstore | 00:00:00 | 0 rows

Ready

Ln 128 Col 30 Ch 27 INS

4:22 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

CREATE TABLE Wrote (BOOK\_CODE VARCHAR(10) NOT NULL, AUTHOR\_NUM INT NOT NULL, SEQUENCE INT NOT NULL, PRIMARY KEY (BOOK\_CODE, AUTHOR\_NUM), FOREIGN KEY (BOOK\_CODE) REFERENCES Book(BOOK\_CODE), FOREIGN KEY (AUTHOR\_NUM) REFERENCES Author(AUTHOR\_NUM))

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T16:47:24.1894219-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 137 Col 3 Ch 3 INS

4:47 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

INSERT INTO Wrote VALUES ('0180', 3, 1), ('0189', 5, 1), ('0200', 18, 1), ('0378', 11, 1), ('079X', 4, 1), ('0808', 4, 1), ('1351', 6, 1), ('1382', 23, 2), ('1382', 25, 1), ('138X', 1, 1), ('2226', 15, 1), ('2281', 9, 2), ('2281', 19, 1), ('2766', 20, 1), ('2908', 17, 1), ('3350', 2, 1), ('3743', 16, 1), ('3906', 24, 1), ('5163', 20, 1), ('5790', 10, 1), ('6128', 1, 1), ('6328', 14, 1), ('669X', 7, 1), ('6908', 16, 1), ('7405', 20, 1), ('7443', 15, 1), ('7559', 18, 1), ('8092', 12, 1), ('8720', 8, 1), ('9611', 5, 2), ('9611', 6, 1), ('9627', 1, 1), ('9781', 20, 1), ('9882', 4, 1), ('9883', 16, 1), ('9931', 13, 1);

100 %

Messages

(36 rows affected)

Completion time: 2024-12-05T16:48:05.1419787-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 148 Col 70 Ch 67 INS

4:48 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
CREATE TABLE Inventory (
    BOOK_CODE Varchar(10) Foreign Key References Book(BOOK_CODE),
    BRANCH_NUM INT Foreign Key References Branch(BRANCH_NUM),
    ON_HAND Int,
    Primary Key (BOOK_CODE, BRANCH_NUM)
);
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T16:53:34.5159956-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 155 Col 3 Ch 3 INS

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
CREATE TABLE Inventory (
    BOOK_CODE Varchar(10) Foreign Key References Book(BOOK_CODE),
    BRANCH_NUM INT Foreign Key References Branch(BRANCH_NUM),
    ON_HAND Int,
    Primary Key (BOOK_CODE, BRANCH_NUM)
);

INSERT INTO INVENTORY VALUES
    ('5163', 1, 1), ('5790', 4, 2), ('6128', 2, 4), ('6128', 3, 3), ('6328', 2, 2),
    ('669X', 1, 1), ('6908', 2, 2), ('7405', 3, 2), ('7443', 4, 1), ('7559', 2, 2),
    ('8092', 3, 1), ('8720', 1, 3), ('9611', 1, 2), ('9627', 3, 5), ('9627', 4, 2),
    ('9701', 1, 2), ('9701', 2, 1), ('9701', 3, 3), ('9701', 4, 2), ('9882', 3, 3),
    ('9883', 2, 3), ('9883', 4, 2), ('9931', 1, 2);
```

100 %

Messages

(23 rows affected)

Completion time: 2024-12-05T16:54:15.3539267-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 163 Col 5 Ch 5 INS

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute

Reading\_Rainbow\_Booksto SQLQuery1.sql - D...61RRD8\krush (54)\*

Object Explorer

```
Create Table Sales (
    SALE_ID Int Primary Key,
    BRANCH_NUM Int Foreign Key References Branch(BRANCH_NUM),
    BOOK_CODE Varchar(10) Foreign Key References Book(BOOK_CODE),
    SALE_DATE Date,
    SALE_PRICE Decimal(10, 2)
)

INSERT INTO Sales VALUES
    (1, 1, '0180', '2024-12-01', 10.99),
    (2, 2, '0189', '2024-12-02', 9.99),
    (3, 3, '0200', '2024-12-03', 11.99),
    (4, 1, '0378', '2024-12-04', 29.99),
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T17:08:18.4960832-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 170 Col 3 Ch 3 INS

5:08 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute

Reading\_Rainbow\_Booksto SQLQuery1.sql - D...61RRD8\krush (54)\*

Object Explorer

```
INSERT INTO Sales VALUES
    (1, 1, '0180', '2024-12-01', 10.99),
    (2, 2, '0189', '2024-12-02', 9.99),
    (3, 3, '0200', '2024-12-03', 11.99),
    (4, 1, '0378', '2024-12-04', 29.99),
    (5, 2, '079X', '2024-12-05', 27.95),
    (6, 3, '0888', '2024-12-06', 9.99),
    (7, 4, '1351', '2024-12-07', 25.99),
    (8, 1, '1382', '2024-12-08', 29.99),
    (9, 4, '2226', '2024-12-09', 19.95),
    (10, 2, '2766', '2024-12-10', 11.99);
```

100 %

Messages

(10 rows affected)

Completion time: 2024-12-05T17:08:52.9027316-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 182 Col 42 Ch 42 INS

5:08 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Reading\_Rainbow\_Booksto

Execute

New Query

SQLQuery1.sql - D...61RRD8\krush (54)\* - x

```
(2, 2, '0189', '2024-12-02', 9.99),
(3, 3, '0200', '2024-12-03', 11.99),
(4, 1, '0378', '2024-12-04', 29.99),
(5, 2, '079X', '2024-12-05', 27.95),
(6, 3, '0888', '2024-12-06', 9.99),
(7, 4, '1351', '2024-12-07', 25.99),
(8, 1, '1382', '2024-12-08', 29.99),
(9, 4, '2226', '2024-12-09', 19.95),
(10, 2, '2766', '2024-12-10', 11.99);
```

SELECT \*  
FROM Book  
INNER JOIN Wrote ON Book.BOOK\_CODE = Wrote.BOOK\_CODE  
ORDER BY PRICE DESC;

Results Messages

BOOK_CODE	TITLE	PUB_CODE	BOOK_GENRE	PRICE	PAPERBACK	BOOK_CODE	AUTHOR_NUM	SEQUENCE
669X	A Guide to SQL	CT	CMP	44.95	Yes	669X	7	1
0378	Venice	SS	ART	29.99	No	0378	11	1
1382	Treasure Chests	TA	ART	29.99	No	1382	23	2
1382	Treasure Chests	TA	ART	29.99	No	1382	25	1
2281	Van Gogh and Gauguin	WP	ART	29.95	No	2281	9	2
2281	Van Gogh and Gauguin	WP	ART	29.95	No	2281	19	1
079X	Second Wind	PU	MYS	27.95	No	079X	4	1
7443	Harry Potter and the Goblet of Fire	ST	SFI	27.95	Yes	7443	15	1
9931	To Kill a Mockingbird	HC	FIC	27.95	No	9931	13	1
1351	Dreamcatcher: A Novel	SC	HOR	25.99	No	1351	6	1
9611	Black House	RH	HOR	24.95	No	9611	5	2
3906	... (REDACTED)	... (REDACTED)	... (REDACTED)	24.95	No	3906	... (REDACTED)	... (REDACTED)

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 36 rows

Ready Ln 187 Col 21 Ch 21 INS

5:13 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Reading\_Rainbow\_Booksto

Execute (F5)

```
FROM Book
INNER JOIN Wrote ON Book.BOOK_CODE = Wrote.BOOK_CODE
ORDER BY PRICE DESC;
```

```
SELECT W.BOOK_CODE, W.AUTHOR_NUM
FROM Wrote AS W
LEFT JOIN Author AS A ON W.AUTHOR_NUM = A.AUTHOR_NUM
WHERE W.AUTHOR_NUM >= 21;
```

Results Messages

BOOK_CODE	AUTHOR_NUM
1382	23
1382	25
3906	24

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 3 rows

Ready Ln 193 Col 1 Ch 1 OVR

5:19 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

```

FROM Book
INNER JOIN Wrote ON Book.BOOK_CODE = Wrote.BOOK_CODE
ORDER BY PRICE DESC;

SELECT W.BOOK_CODE, W.AUTHOR_NUM
FROM Wrote AS W
LEFT JOIN Author AS A ON W.AUTHOR_NUM = A.AUTHOR_NUM
WHERE W.AUTHOR_NUM >= 21;

SELECT Branch.BRANCH_NUM, Branch.BRANCH_NAME, Branch.BRANCH_LOCATION, Inventory.BOOK_CODE
FROM Inventory
RIGHT JOIN Branch ON Inventory.BRANCH_NUM = Branch.BRANCH_NUM
ORDER BY Inventory.BOOK_CODE ASC;

```

100 %

Results Messages

BRANCH_NUM	BRANCH_NAME	BRANCH_LOCATION	BOOK_CODE
1	Books Downtown	487 E 5th Street	5163
2	Books In Brooklyn	2159 Fulton Road	5790
3	Books On The Eastshore	25224 Lake Shore Blvd	6128
4	Books On The Hill	7783 Ridgewood Drive	6128
5	Books On The Hill	7783 Ridgewood Drive	6328
6	Books Downtown	487 E 5th Street	669X
7	Books On The Hill	7783 Ridgewood Drive	6908
8	Books On The Eastshore	25224 Lake Shore Blvd	7405
9	Books In Brooklyn	2159 Fulton Road	7443
10	Books On The Hill	7783 Ridgewood Drive	7559
11	Books On The Eastshore	25224 Lake Shore Blvd	8092

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) | DESKTOP-F61RRD8\krush ... | Reading\_Rainbow\_Bookstore | 00:00:00 | 23 rows

Ready Ln 197 Col 34 Ch 34 OVR

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

```

FROM Book
RIGHT JOIN Branch ON Inventory.BRANCH_NUM = Branch.BRANCH_NUM
ORDER BY Inventory.BOOK_CODE ASC;

SELECT Book.BOOK_CODE, Book.TITLE, Book.BOOK_GENRE, Book.PRICE, Wrote.AUTHOR_NUM, Inventory.ON_HAND
FROM Book
INNER JOIN Wrote ON Book.BOOK_CODE = Wrote.BOOK_CODE
INNER JOIN Inventory ON Book.BOOK_CODE = Inventory.BOOK_CODE;

```

100 %

Results Messages

BOOK_CODE	TITLE	BOOK_GENRE	PRICE	AUTHOR_NUM	ON_HAND
5163	Travels with Charley	TRA	10.95	20	1
5790	Catch-22	FIC	17.95	10	2
6128	Jazz	FIC	19.99	1	4
6128	Jazz	FIC	19.99	1	3
6328	Band of Brothers	HIS	17.99	14	2
669X	A Guide to SQL	CMP	44.95	7	1
6908	Franny and Zooey	FIC	9.99	16	2
7405	East of Eden	FIC	15.95	20	2
7443	Harry Potter and the Goblet of Fire	SFI	27.95	15	1
7559	The Fall	FIC	12.95	18	2
8092	Godel, Escher, Bach	PHI	19.99	12	1

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) | DESKTOP-F61RRD8\krush ... | Reading\_Rainbow\_Bookstore | 00:00:00 | 24 rows

Ready Ln 202 Col 62 Ch 62 OVR

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Reading\_Rainbow\_Booksto

File Edit View Query Project Tools Window Help

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
SELECT Book.BOOK_CODE, Book.TITLE, Book.BOOK_GENRE, Book.PRICE, Wrote.AUTHOR_NUM, Inventory.ON_HAND
FROM Book
INNER JOIN Wrote ON Book.BOOK_CODE = Wrote.BOOK_CODE
INNER JOIN Inventory ON Book.BOOK_CODE = Inventory.BOOK_CODE;

Create Table Branch_Expansion (
    BRANCH_NUM Int Primary Key,
    BRANCH_NAME Varchar(50),
    BRANCH_LOCATION Varchar(100),
    NUM_EMPLOYEES Int
);
```

100 %

Messages Commands completed successfully.

Completion time: 2024-12-05T17:33:28.5926401-05:00

100 %

Query executed successfully. DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 209 Col 3 Ch 3 INS

5:33 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Quick Launch (Ctrl+Q)

Object Explorer

Reading\_Rainbow\_Booksto

File Edit View Query Project Tools Window Help

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
BRANCH_NUM Int Primary Key,
BRANCH_NAME Varchar(50),
BRANCH_LOCATION Varchar(100),
NUM_EMPLOYEES Int
);

INSERT INTO Branch_Expansion VALUES
(5, 'Books In Bay Village', '25619 Lake Road', 6),
(6, 'Books In Westlake', '1876 Crocker Drive', 9),
(7, 'Books In The CLE', '18521 E 185th Street', 14),
(8, 'Books In The Valley', '3885 Brittain Road', 8);
```

100 %

Messages (4 rows affected)

Completion time: 2024-12-05T17:34:09.2264465-05:00

100 %

Query executed successfully. DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready Ln 215 Col 57 Ch 57 INS

5:34 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
INSERT INTO Branch_Expansion VALUES
(5, 'Books In Bay Village', '25619 Lake Road', 6),
(6, 'Books In Westlake', '1876 Crocker Drive', 9),
(7, 'Books In The CLE', '18521 E 185th Street', 14),
(8, 'Books In The Valley', '3885 Brittain Road', 8);

Select * From Branch
Where NUM_EMPLOYEES > 8
Union
Select * From Branch_Expansion
Where NUM_EMPLOYEES > 8;
```

100 %

Results Messages

BRANCH_NUM	BRANCH_NAME	BRANCH_LOCATION	NUM_EMPLOYEES
1	Books Downtown	487 E 5th Street	10
2	Books On The Eastshore	25224 Lake Shore Blvd	20
3	Books In Brooklyn	2150 Fulton Road	15
4	Books In Westlake	1876 Crocker Drive	9
5	Books In The CLE	18521 E 185th Street	14

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 5 rows

Ready

Search

5:38 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
(6, 'Books In Westlake', '1876 Crocker Drive', 9),
(7, 'Books In The CLE', '18521 E 185th Street', 14),
(8, 'Books In The Valley', '3885 Brittain Road', 8);

Select * From Branch
Where NUM_EMPLOYEES > 8
Union
Select * From Branch_Expansion
Where NUM_EMPLOYEES > 8;

DROP TABLE Branch_Expansion;
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T17:39:14.7350935-05:00

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

Search

5:39 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute |

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
SELECT * FROM Branch
WHERE NUM_EMPLOYEES > 8
UNION
SELECT * FROM Branch_Expansion
WHERE NUM_EMPLOYEES > 8;

DROP TABLE Branch_Expansion;

INSERT INTO Branch
VALUES (5, 'Books In Bay Village', '25619 Lake Road', 6),
(6, 'Books In Westlake', '1876 Crocker Drive', 9),
(7, 'Books In The CLE', '18521 E 185th Street', 14),
(8, 'Books In The Valley', '3885 Brittain Road', 8);
```

100 %

Messages

(4 rows affected)

Completion time: 2024-12-05T17:41:05.7211480-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 0 rows

Ready

5:41 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute |

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
Select * From Branch_Expansion
Where NUM_EMPLOYEES > 8;

DROP TABLE Branch_Expansion;

INSERT INTO Branch
VALUES (5, 'Books In Bay Village', '25619 Lake Road', 6),
(6, 'Books In Westlake', '1876 Crocker Drive', 9),
(7, 'Books In The CLE', '18521 E 185th Street', 14),
(8, 'Books In The Valley', '3885 Brittain Road', 8);

Select * From Branch
Order By NUM_EMPLOYEES Desc;
```

100 %

Results

	BRANCH_NUM	BRANCH_NAME	BRANCH_LOCATION	NUM_EMPLOYEES
1	3	Books On the Eastshore	25224 Lake Shore Blvd	20
2	4	Books In Brooklyn	2159 Fulton Road	15
3	7	Books In The CLE	18521 E 185th Street	14
4	1	Books Downtown	487 E 5th Street	10
5	6	Books In Westlake	1876 Crocker Drive	9
6	8	Books In The Valley	3885 Brittain Road	8
7	2	Books On The Hill	7783 Ridgewood Drive	8
8	5	Books In Bay Village	25619 Lake Road	6

100 %

Messages

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 8 rows

Ready

5:43 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer | Connect |

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
(8, 'BOOKS in the Valley', '3885 Britannia Road', 8);

Select * From Branch
Order By NUM_EMPLOYEES Desc;

Create Table Branch_Employees (
    EMPLOYEE_ID Int Primary Key,
    LAST_NAME Varchar(50),
    FIRST_NAME Varchar(50),
    JOB_CODE Varchar(10),
    JOB_TYPE Varchar(10),
    HOURLY_WAGE Decimal(10, 2),
    BRANCH_NUM Int Foreign Key References Branch(BRANCH_NUM)
);
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-12-05T17:48:45.8934132-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) | DESKTOP-F61RRD8\krush ... | Reading\_Rainbow\_Bookstore | 00:00:00 | 0 rows

Ready

Ln 242 Col 3 Ch 3 INS

5:48 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer | Connect |

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
(10181, 'Carrasco', 'Claudio', 'PT', 'Hourly', 15.00, 3),
(10183, 'Avery', 'Eric', 'SE', 'Hourly', 12.50, 3),
(10189, 'Doyle', 'Alan', 'PT', 'Hourly', 15.00, 7),
(10190, 'Hallett', 'Bob', 'PT', 'Hourly', 15.00, 3),
(10191, 'Foster', 'Murray', 'SE', 'Hourly', 12.50, 3),
(10192, 'McCann', 'Sean', 'SE', 'Hourly', 12.50, 3),
(10193, 'Power', 'Darrell', 'SE', 'Hourly', 12.50, 3),
(10194, 'O''Riordan', 'Delores', 'PT', 'Hourly', 15.00, 3),
(10195, 'Quinn', 'Niall', 'PT', 'Hourly', 15.00, 3),
(10196, 'Lawler', 'Fergal', 'PT', 'Salary', 0.00, 8);
```

100 %

Messages

(90 rows affected)

Completion time: 2024-12-05T17:50:27.1062791-05:00

100 %

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) | DESKTOP-F61RRD8\krush ... | Reading\_Rainbow\_Bookstore | 00:00:00 | 0 rows

Ready

Ln 334 Col 61 Ch 55 INS

5:50 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
10195, 'Lawyer', 'Fergal', 'FT', 'Salary', 8.00, 8;
```

```
Select EMPLOYEE_ID, BRANCH_NUM,
    Case
        When BRANCH_NUM = 1 Then 'Branch Downtown'
        When BRANCH_NUM = 2 Then 'Branch On The Hill'
        When BRANCH_NUM = 3 Then 'Branch On The Eastshore'
        When BRANCH_NUM = 4 Then 'Branch In Brooklyn'
        Else 'Not a valid Branch Number'
    End As [Employee Job Location] From Branch_Employees;
```

100 %

Results Messages

EMPLOYEE_ID	BRANCH_NUM	Employee Job Location
1	10101	8
2	10102	6
3	10103	5
4	10104	2
5	10105	7
6	10106	1
7	10107	3
8	10108	3
9	10109	8
10	10110	2
11	10111	7

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 90 rows

Ready Ln 343 Col 58 Ch 58 INS

5:55 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto Execute

Object Explorer

SQLQuery1.sql - D...61RRD8\krush (54)\* - X

```
Case
    When BRANCH_NUM = 1 Then 'Branch Downtown'
    When BRANCH_NUM = 2 Then 'Branch On The Hill'
    When BRANCH_NUM = 3 Then 'Branch On The Eastshore'
    When BRANCH_NUM = 4 Then 'Branch In Brooklyn'
    Else 'Not a valid Branch Number'
End As [Employee Job Location] From Branch_Employees;
```

```
Select AUTHOR_NUM From Wrote
Intersect
Select AUTHOR_NUM From Author
Where AUTHOR_NUM Between 11 AND 29;
```

100 %

Results Messages

AUTHOR_NUM	
1	11
2	12
3	13
4	14
5	15
6	16
7	17
8	18
9	19
10	20
11	23

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 13 rows

Ready Ln 348 Col 36 Ch 36 INS

5:58 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Object Explorer Connect

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
Else 'Not a valid Branch Number'
End As [Employee Job Location] From Branch_Employees;

Select AUTHOR_NUM From Wrote
Intersect
Select AUTHOR_NUM From Author
Where AUTHOR_NUM BETWEEN 11 AND 29;

Select B1.BRANCH_NUM, B2.BRANCH_NUM As [Related Branch]
From Branch B1
Join Branch B2 On B1.BRANCH_NUM IN (2, 5);
```

100 %

Results Messages

BRANCH_NUM	Related Branch
1	2
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	1
10	5
11	3

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 16 rows

Ready Ln 352 Col 43 Ch 43 INS 6:03 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Object Explorer Connect

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
From Branch B1
Join Branch B2 On B1.BRANCH_NUM IN (2, 5);

Select
    Branch.BRANCH_NUM,
    Branch.BRANCH_LOCATION,
    Branch_Employees.EMPLOYEE_ID,
    Branch_Employees.HOURLY_WAGE
From Branch
Cross Join Branch_Employees
Where Branch.BRANCH_NUM = 4 And Branch_Employees.HOURLY_WAGE = 12.50;
```

100 %

Results Messages

BRANCH_NUM	BRANCH_LOCATION	EMPLOYEE_ID	HOURLY_WAGE
1	2150 Fulton Road	10104	12.50
2	2150 Fulton Road	10105	12.50
3	2150 Fulton Road	10106	12.50
4	2150 Fulton Road	10114	12.50
5	2150 Fulton Road	10115	12.50
6	2150 Fulton Road	10116	12.50
7	2150 Fulton Road	10117	12.50
8	2150 Fulton Road	10119	12.50
9	2150 Fulton Road	10120	12.50
10	2150 Fulton Road	10121	12.50
11	2150 Fulton Road	10125	12.50

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:01:08 36 rows

Ready Ln 362 Col 1 Ch 1 INS 6:32 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer | Connect |

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
SELECT Branch_Employees.EMPLOYEE_ID,
       Branch_Employees.LAST_NAME,
       Branch_Employees.BRANCH_NUM,
       AVG(Sales.SALE_PRICE) AS [Average Sales Price]
  FROM Branch_Employees
  LEFT JOIN Sales
    ON Branch_Employees.BRANCH_NUM = Sales.BRANCH_NUM
 GROUP BY Branch_Employees.BRANCH_NUM,
          Branch_Employees.EMPLOYEE_ID,
          Branch_Employees.LAST_NAME;
```

100 %

Results | Messages

	EMPLOYEE_ID	LAST_NAME	BRANCH_NUM	Average Sales Price
1	10101	Swift	8	NULL
2	10102	Evans	6	NULL
3	10103	Minogue	5	NULL
4	10104	Schumann	2	16.643333
5	10105	Gow	7	NULL
6	10106	Porter	1	23.656666
7	10107	Furnier	3	10.990000
8	10108	Mizell	3	10.990000
9	10109	Washington	8	NULL
10	10110	Jones	2	16.643333
11	10111	Grande	7	NULL

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 90 rows

Ready | Ln 374 Col 32 Ch 32 INS | 6:39 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54)\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Reading\_Rainbow\_Booksto | Execute | New Query |

Object Explorer | Connect |

SQLQuery1 | Execute (F5) | D...61RRD8\krush (54)\*

```
SELECT MAX(HOURLY_WAGE)
      FROM Branch_Employees
     WHERE JOB_CODE = 'FT';
```

100 %

Results | Messages

MAX(HOURLY_WAGE)
0.00

Query executed successfully.

DESKTOP-F61RRD8 (16.0 RTM) DESKTOP-F61RRD8\krush ... Reading\_Rainbow\_Bookstore 00:00:00 18 rows

Ready | Ln 379 Col 29 Ch 29 INS | 6:43 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute

Reading\_Rainbow\_Booksto

Object Explorer

DESKTOP-F61RRD8 (

- Databases
- Security
- Server Objects
- Replication
- Always On High Av
- Management
- Integration Service
- SQL Server Agent
- XEvent Profiler

SQLQuery1.sql - D...61RRD8\krush (54)\*

```
Select EMPLOYEE_ID, JOB_CODE, MAX(HOURLY_WAGE) AS MaxHourlyWage
From Branch_Employees
Group By JOB_CODE, EMPLOYEE_ID
Having MAX(HOURLY_WAGE) = 0;
```

--Extra Credit

```
Update Branch_Employees
Set HOURLY_WAGE = 25.00
Where HOURLY_WAGE = 0.00;
```

(18 rows affected)

Completion time: 2024-12-05T18:48:32.2338359-05:00

100 %

Messages

Query executed successfully.

LN 385 Col 26 Ch 26 INS

Ready 6:48 PM 12/5/2024

SQLQuery1.sql - DESKTOP-F61RRD8.Reading\_Rainbow\_Bookstore (DESKTOP-F61RRD8\krush (54))\* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute

Reading\_Rainbow\_Booksto

Object Explorer

DESKTOP-F61RRD8 (

- Databases
- Security
- Server Objects
- Replication
- Always On High Av
- Management
- Integration Service
- SQL Server Agent
- XEvent Profiler

SQLQuery1 Execute (F5) D\krush (54)\*

```
Select Inventory.BRANCH_NUM AS BranchNumber, Branch_Employees.EMPLOYEE_ID AS EmployeeID, Branch_Employees.LAST_NAME AS LastName,
Avg(Branch_Employees.HOURLY_WAGE) AS AverageHourlyWage
From Inventory
Right Join Branch_Employees
On Inventory.BRANCH_NUM = Branch_Employees.BRANCH_NUM
Group By
Inventory.BRANCH_NUM,
Branch_Employees.EMPLOYEE_ID,
Branch_Employees.LAST_NAME
Having Avg(Branch_Employees.HOURLY_WAGE) > 20.00;
```

Results

BranchNumber	EmployeeID	LastName	AverageHourlyWage
1	10103	Minogue	25.000000
2	10109	Washington	25.000000
3	10110	Jones	25.000000
4	10112	Kennedy	25.000000
5	10123	Davis	25.000000
6	10124	Clarke	25.000000
7	10127	King	25.000000
8	10134	Faure	25.000000
9	10135	Fitzgerald	25.000000
10	10148	Brown	25.000000
11	10152	Newton-John	25.000000

Query executed successfully.

LN 397 Col 1 Ch 1 INS

Ready 7:02 PM 12/5/2024