**ASSIGNMENT 2 – SQL QUERY OUTPUT**

**AUTHOR:** HEMANT THAKKAR, UJJVAL (NUID: 001232511)

-- 1. WHAT AUTHORS ARE IN CALIFORNIA

SELECT CONCAT(AU\_FNAME,' ',AU\_LNAME) AS AUTHORNAME,STATE FROM AUTHORS WHERE STATE='CA';

**OUTPUT**

|  |  |
| --- | --- |
| AUTHORNAME | STATE |
| Johnson White | CA |
| Marjorie Green | CA |
| Cheryl Carson | CA |
| Michael O'Leary | CA |
| Dean Straight | CA |
| Abraham Bennet | CA |
| Ann Dull | CA |
| Burt Gringlesby | CA |
| Charlene Locksley | CA |
| Akiko Yokomoto | CA |
| Dirk Stringer | CA |
| Stearns MacFeather | CA |
| Livia Karsen | CA |
| Sheryl Hunter | CA |
| Heather McBadden | CA |

-- 2. LIST THE TITLES AND AUTHOR NAMES

SELECT CONCAT(A.AU\_FNAME,' ',A.AU\_LNAME) AS AUTHORNAME,T.TITLE AS TITLENAME FROM AUTHORS A JOIN TITLEAUTHOR TA ON A.AU\_ID=TA.AU\_ID JOIN TITLES T ON TA.TITLE\_ID=T.TITLE\_ID ORDER BY AUTHORNAME;

**OUTPUT**

|  |  |
| --- | --- |
| AUTHORNAME | TITLENAME |
| Abraham Bennet | The Busy Executive's Database Guide |
| Akiko Yokomoto | Sushi, Anyone? |
| Albert Ringer | Is Anger the Enemy? |
| Albert Ringer | Life Without Fear |
| Ann Dull | Secrets of Silicon Valley |
| Anne Ringer | Is Anger the Enemy? |
| Anne Ringer | The Gourmet Microwave |
| Burt Gringlesby | Sushi, Anyone? |
| Charlene Locksley | Emotional Security: A New Algorithm |
| Charlene Locksley | Net Etiquette |
| Cheryl Carson | But Is It User Friendly? |
| Dean Straight | Straight Talk About Computers |
| Innes del Castillo | Silicon Valley Gastronomic Treats |
| Johnson White | Prolonged Data Deprivation: Four Case Studies |
| Livia Karsen | Computer Phobic AND Non-Phobic Individuals: Behavior Variations |
| Marjorie Green | The Busy Executive's Database Guide |
| Marjorie Green | You Can Combat Computer Stress! |
| Michael O'Leary | Cooking with Computers: Surreptitious Balance Sheets |
| Michael O'Leary | Sushi, Anyone? |
| Michel DeFrance | The Gourmet Microwave |
| Reginald Blotchet-Halls | Fifty Years in Buckingham Palace Kitchens |
| Sheryl Hunter | Secrets of Silicon Valley |
| Stearns MacFeather | Cooking with Computers: Surreptitious Balance Sheets |
| Stearns MacFeather | Computer Phobic AND Non-Phobic Individuals: Behavior Variations |
| Sylvia Panteley | Onions, Leeks, and Garlic: Cooking Secrets of the Mediterranean |

-- 3. LIST ALL EMPLOYEES AND THEIR JOBS

SELECT CONCAT(E.FNAME,' ',E.LNAME) AS EMPLOYEENAME,J.JOB\_DESC FROM EMPLOYEE E JOIN JOBS J ON E.JOB\_ID=J.JOB\_ID;

**OUTPUT**

|  |  |
| --- | --- |
| EMPLOYEENAME | JOB\_DESC |
| Paolo Accorti | Sales Representative |
| Pedro Afonso | Designer |
| Victoria Ashworth | Managing Editor |
| Helen Bennett | Editor |
| Lesley Brown | Marketing Manager |
| Francisco Chang | Chief Financial Officier |
| Philip Cramer | Chief Executive Officer |
| Aria Cruz | Productions Manager |
| Ann Devon | Business Operations Manager |
| Anabela Domingues | Public Relations Manager |
| Peter Franken | Productions Manager |
| Paul Henriot | Publisher |
| Carlos Hernadez | Publisher |
| Palle Ibsen | Marketing Manager |
| Karla Jablonski | Acquisitions Manager |
| Karin Josephs | Designer |
| Matti Karttunen | Managing Editor |
| Pirkko Koskitalo | Productions Manager |
| Janine Labrune | Publisher |
| Maria Larsson | Marketing Manager |
| Yoshi Latimer | Editor |
| Laurence Lebihan | Publisher |
| Elizabeth Lincoln | Designer |
| Patricia McKenna | Operations Manager |
| Roland Mendel | Operations Manager |
| Rita Muller | Publisher |
| Helvetius Nagy | Marketing Manager |
| Timothy O'Rourke | Sales Representative |
| Sven Ottlieb | Publisher |
| Miguel Paolino | Operations Manager |
| Paula Parente | Public Relations Manager |
| Manuel Pereira | Public Relations Manager |
| Maria Pontes | Publisher |
| Martine Rance | Acquisitions Manager |
| Diego Roel | Managing Editor |
| Annette Roulet | Managing Editor |
| Mary Saveley | Public Relations Manager |
| Carine Schmitt | Sales Representative |
| Margaret Smith | Acquisitions Manager |
| Howard Snyder | Editor |
| Martin Sommer | Productions Manager |
| Gary Thomas | Acquisitions Manager |
| Daniel Tonini | Operations Manager |

-- 4. LIST THE TITLES BY TOTAL SALES PRICE

SELECT T.TITLE,SUM(T.PRICE\*S.QTY) AS TOTALSALESPRICE FROM TITLES T JOIN SALES S ON T.TITLE\_ID=S.TITLE\_ID GROUP BY T.TITLE;

**OUTPUT**

|  |  |
| --- | --- |
| TITLE | TOTALSALESPRICE |
| But Is It User Friendly? | 688.5 |
| Computer Phobic AND Non-Phobic Individuals: Behavior Variations | 431.8 |
| Cooking with Computers: Surreptitious Balance Sheets | 298.75 |
| Emotional Security: A New Algorithm | 199.75 |
| Fifty Years in Buckingham Palace Kitchens | 239 |
| Is Anger the Enemy? | 1182.6 |
| Life Without Fear | 175 |
| Onions, Leeks, and Garlic: Cooking Secrets of the Mediterranean | 838 |
| Prolonged Data Deprivation: Four Case Studies | 299.85 |
| Secrets of Silicon Valley | 1000 |
| Silicon Valley Gastronomic Treats | 199.9 |
| Straight Talk About Computers | 299.85 |
| Sushi, Anyone? | 299.8 |
| The Busy Executive's Database Guide | 299.85 |
| The Gourmet Microwave | 119.6 |
| You Can Combat Computer Stress! | 104.65 |

-- 5. FIND THE SALES FOR STORES IN CALIFORNIA

SELECT ST.STOR\_NAME,ST.STATE,SUM(SA.QTY) AS TOTALSALES FROM STORES ST JOIN SALES SA ON ST.STOR\_ID=SA.STOR\_ID WHERE STATE='CA' GROUP BY ST.STOR\_NAME,ST.STATE;

**OUTPUT**

|  |  |  |
| --- | --- | --- |
| STOR\_NAME | STATE | TOTALSALES |
| Barnum's | CA | 125 |
| Fricative Bookshop | CA | 60 |
| News & Brews | CA | 90 |

-- 6. USE SSMS TO GENERATE A SCRIPT TO CREATE THE AUTHORS TABLE DESCRIBE WHAT THE SCRIPT DOES

USE [PUBS]

GO

/\*\*\*\*\*\* OBJECT: TABLE [DBO].[AUTHORS] SCRIPT DATE: 23-JAN-17 9:03:28 PM \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [DBO].[AUTHORS](

[AU\_ID] [DBO].[ID] NOT NULL,

[AU\_LNAME] [VARCHAR](40) NOT NULL,

[AU\_FNAME] [VARCHAR](20) NOT NULL,

[PHONE] [CHAR](12) NOT NULL,

[ADDRESS] [VARCHAR](40) NULL,

[CITY] [VARCHAR](20) NULL,

[STATE] [CHAR](2) NULL,

[ZIP] [CHAR](5) NULL,

[CONTRACT] [BIT] NOT NULL,

CONSTRAINT [UPKCL\_AUIDIND] PRIMARY KEY CLUSTERED

(

[AU\_ID] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [DBO].[AUTHORS] ADD DEFAULT ('UNKNOWN') FOR [PHONE]

GO

ALTER TABLE [DBO].[AUTHORS] WITH CHECK ADD CHECK (([AU\_ID] LIKE '[0-9][0-9][0-9]-[0-9][0-9]-[0-9][0-9][0-9][0-9]'))

GO

ALTER TABLE [DBO].[AUTHORS] WITH CHECK ADD CHECK (([ZIP] LIKE '[0-9][0-9][0-9][0-9][0-9]'))

GO

**EXPLAINATION**

The script above does the following:

1. Creates a table **Authors** with **au\_id** as the **primary key** having Primary Key constraint with a Unique Clustered Index.
2. It alters the default value of the column PHONE to ‘UNKNOWN’.
3. It limit the values that can be entered in the columns AU\_ID and ZIP by adding a check constraint.

-- 7. DESCRIBE WHAT THE AU\_ID IS USING FOR A DATA TYPE

**EXPLAINATION**

Datatype: id:varchar(11)

‘id’ is a dictionary datatype defined with varchar as the datatype and having length 11.

-- 8. LIST THE STORE NAME, TITLE TITLE NAME AND QUANTITY FOR ALL STORES THAT HAVE NET 30 PAYTERMS

SELECT ST.STOR\_NAME,T.TITLE,SA.QTY FROM TITLES T JOIN SALES SA ON T.TITLE\_ID=SA.TITLE\_ID JOIN STORES ST ON ST.STOR\_ID=SA.STOR\_ID WHERE SA.PAYTERMS='NET 30';

**OUTPUT**

|  |  |  |
| --- | --- | --- |
| STOR\_NAME | TITLE | QTY |
| Barnum's | Secrets of Silicon Valley | 50 |
| News & Brews | Onions, Leeks, and Garlic: Cooking Secrets of the Mediterranean | 40 |
| News & Brews | Fifty Years in Buckingham Palace Kitchens | 20 |
| News & Brews | Sushi, Anyone? | 20 |
| Doc-U-Mat: Quality Laundry and Books | Is Anger the Enemy? | 20 |
| Doc-U-Mat: Quality Laundry and Books | The Gourmet Microwave | 25 |
| Bookbeat | Cooking with Computers: Surreptitious Balance Sheets | 25 |
| Bookbeat | But Is It User Friendly? | 30 |

-- 9. FIND THE TITLES THAT DO NOT HAVE ANY SALES SHOW THE NAME OF THE TITLE

SELECT T.TITLE,S.QTY FROM TITLES T LEFT JOIN SALES S ON T.TITLE\_ID=S.TITLE\_ID WHERE S.QTY IS NULL;

**OUTPUT**

|  |  |
| --- | --- |
| TITLE | QTY |
| The Psychology of Computer Cooking | NULL |
| Net Etiquette | NULL |

-- 10. DO PREVIOUS QUESTION ANOTHER WAY

SELECT T.TITLE FROM TITLES T WHERE TITLE\_ID NOT IN (SELECT TITLE\_ID FROM SALES);

**OUTPUT**

|  |
| --- |
| TITLE |
| Net Etiquette |
| The Psychology of Computer Cooking |