

DWH Project

Type	Project
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Team :

Ahmed Kamal

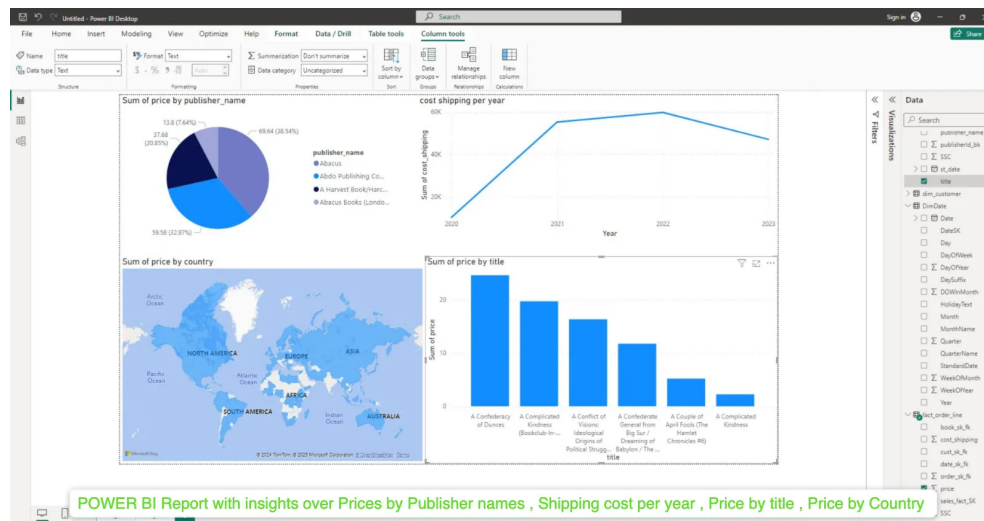
Essam Hisham

John Samir

Ziad Emad



Power BI Chart



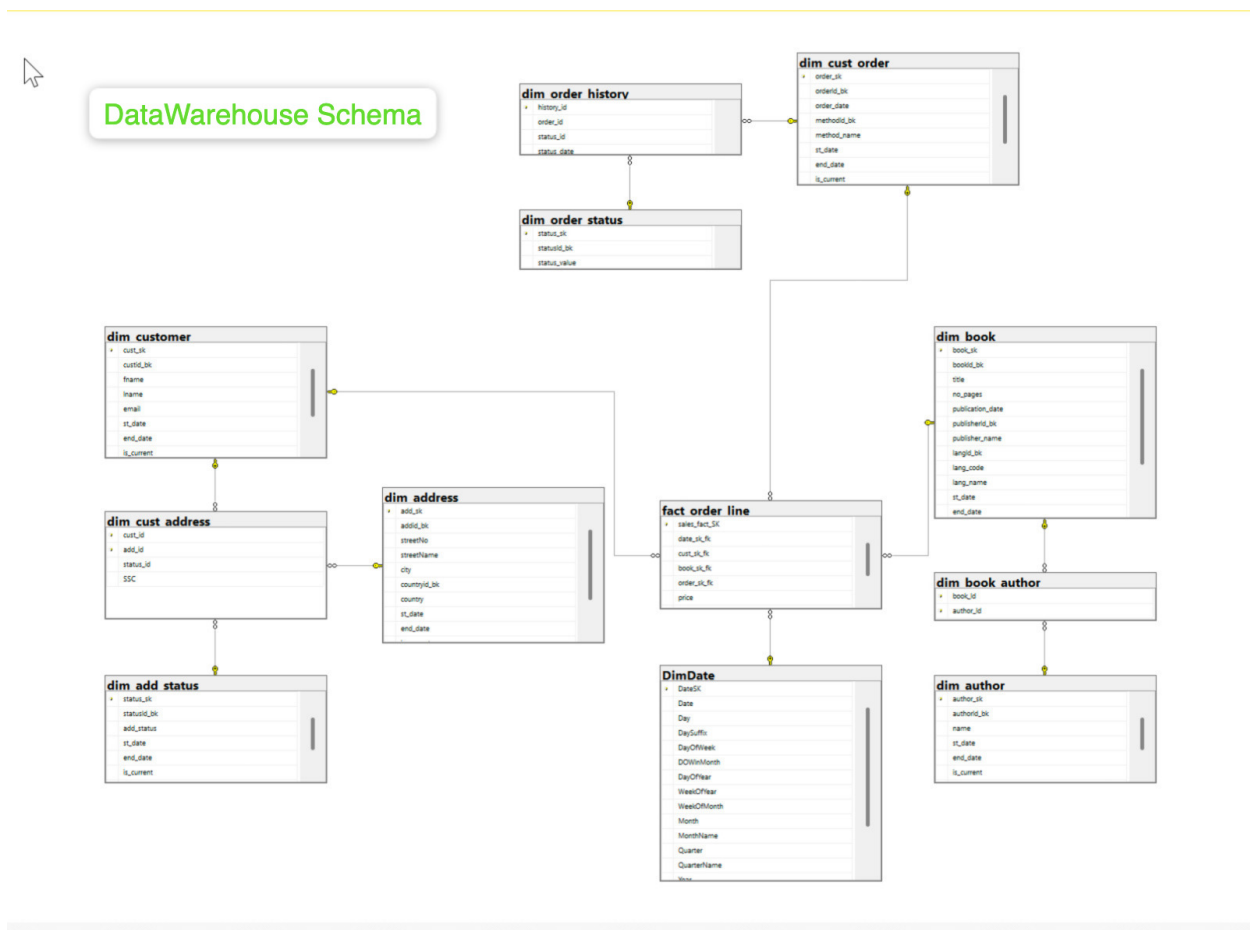
Approach Used for the Definition of the Data Warehouse in the Solution

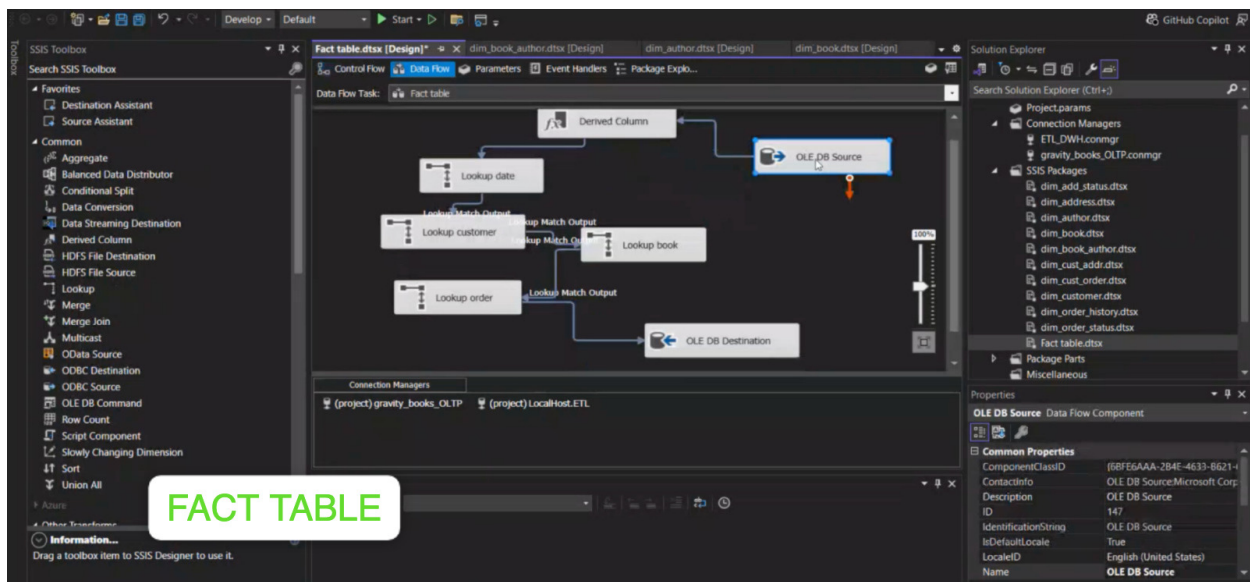
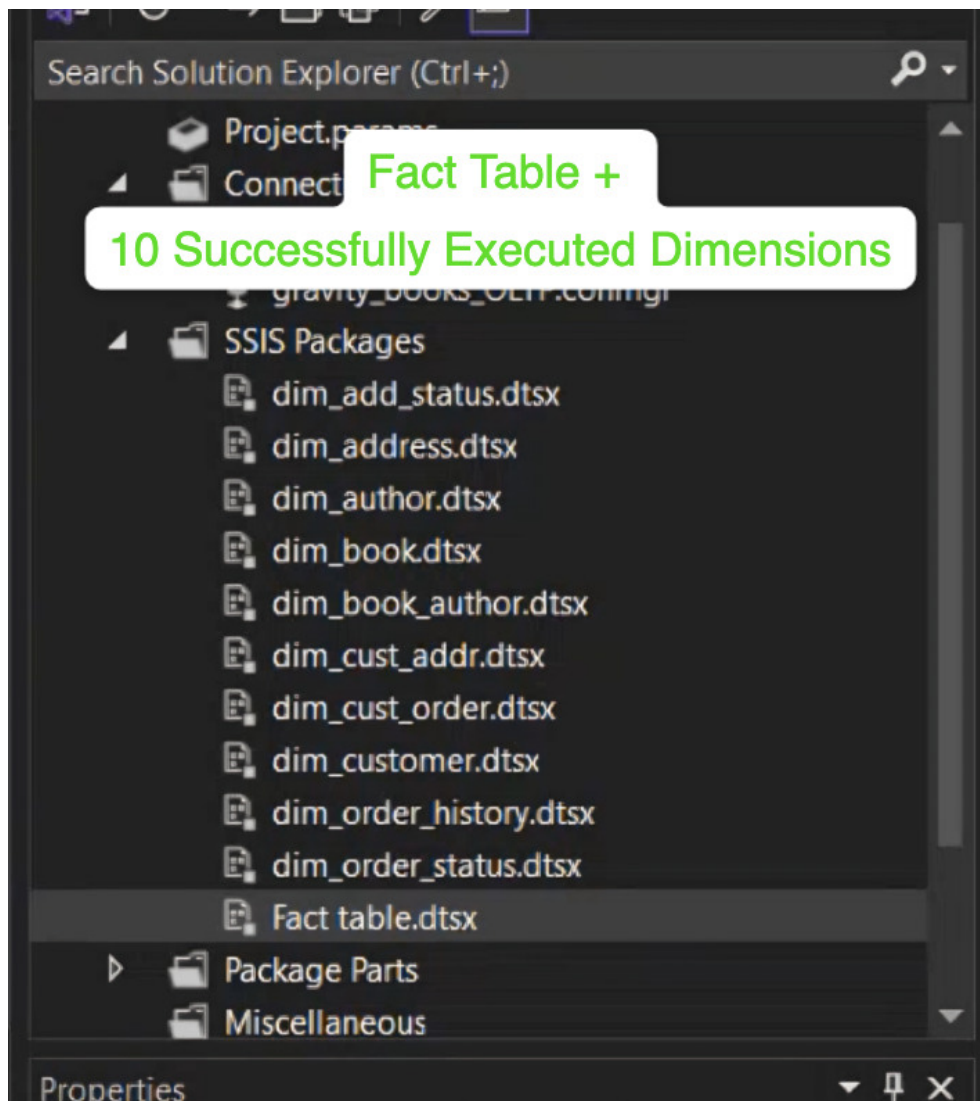
Snowflake schema For normalization and improved data integrity to handle complex relationships .

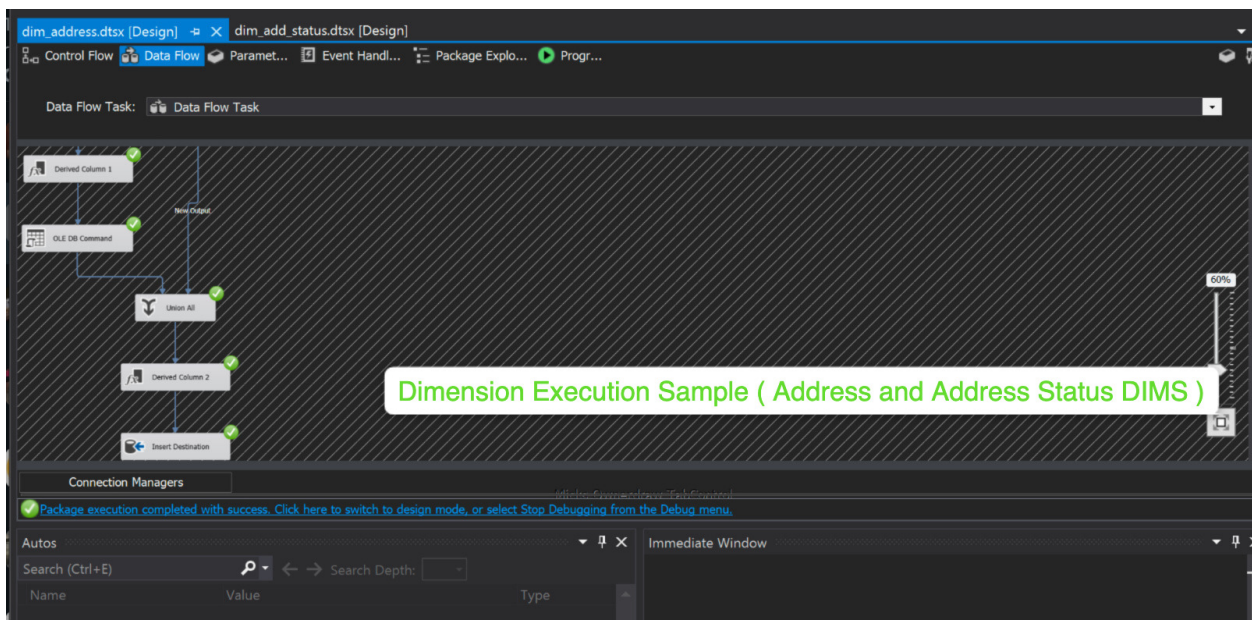
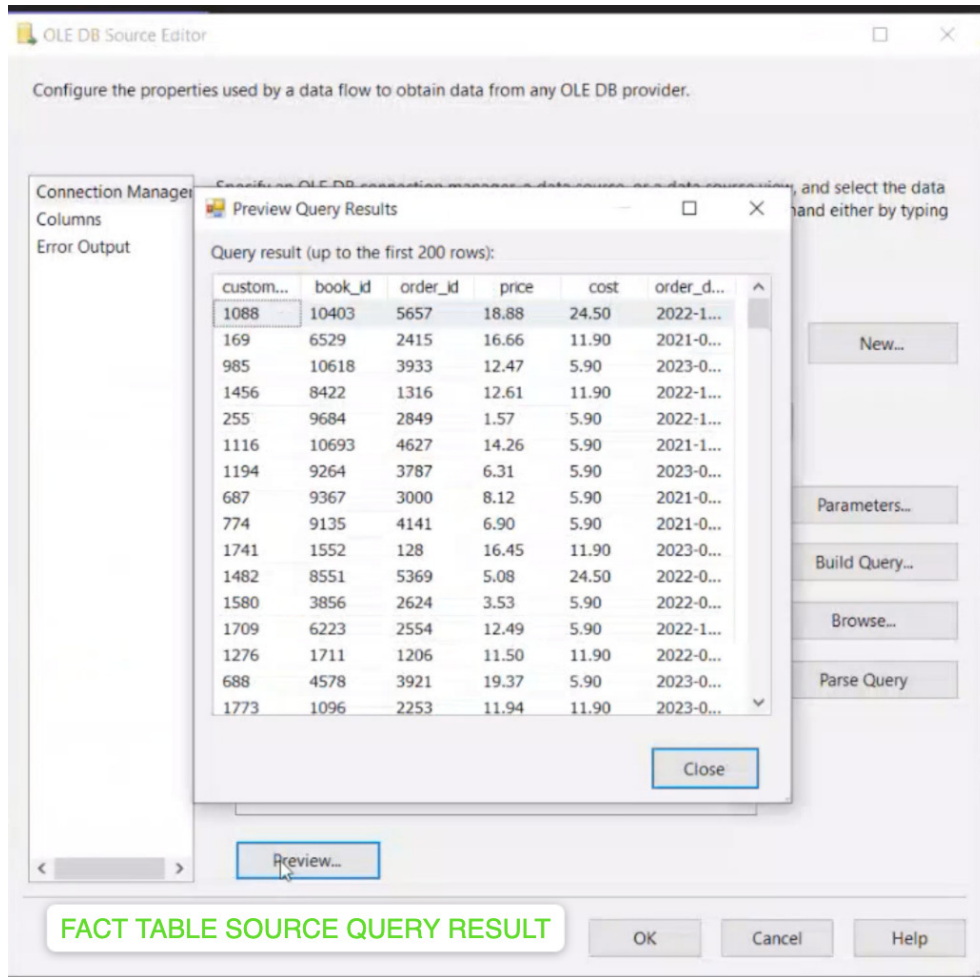
Method used to check and maintain the integrity in DWH

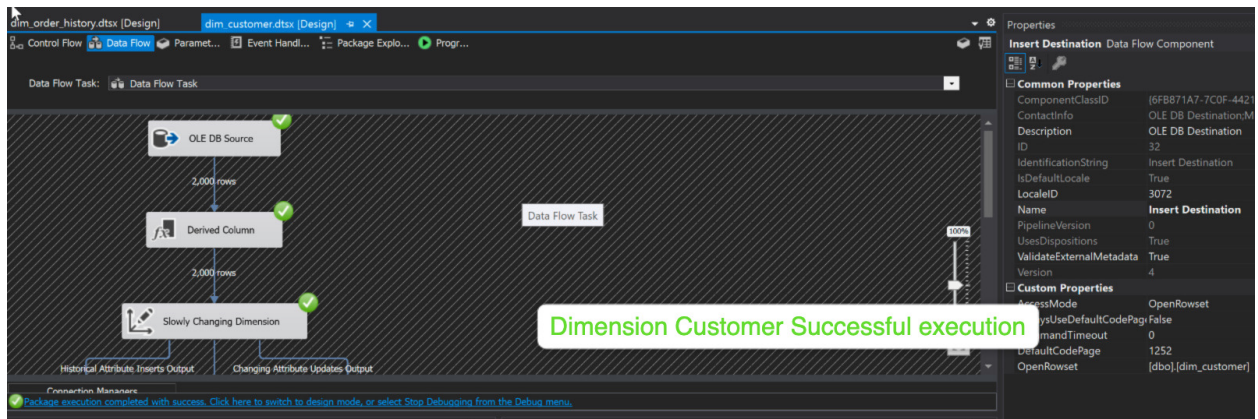
- **Creating Lookup Transformation** to ensure foreign keys in the fact table match corresponding keys in the dimension tables
- **Using Slowly Changing Dimension (SCD) Wizard in SSIS**

Fixed	Never changes	CountyName	No SCD
Changing	Can change, no need to track	Email Address	Type 1
Historical	Changes, and you need history	Address	Type 2









Source Sample Gravity Books DB

customer_id	first_name	last_name	email
1	Ursola	Purdy	upurdy0@cdbaby.com
2	Ruthanne	Vatini	rvatini1@fema.gov
3	Reidar	Turbitt	rturbitt2@geocities.jp
4	Rich	Kirsz	rkirsz3@album.net
5	Carline	Kupis	ckupis4@tamu.edu
6	Kandy	Adamec	kadamec5@weather.com
7	Jermain	Girardeau	jgirardeau6@elpais.com
8	Nolly	Bonicelli	nbonicelli7@examiner.com
9	Phebe	Curdell	pcurdell8@usa.gov
10	Euell	Guilder	eguilder9@theforest.net
11	Teriann	Marritt	tmarrita@va.gov
12	Filmer	Douse	fdouseb@foxnews.com
13	Daisey	Lamball	dlamballc@skyrock.com
14	Gusella	Quogan	gquogand@whitehouse.gov
15	Lonnie	Cambden	lcambdene@gmpg.org
16	Nahbi	Wunba	nwunba@rednet.gov

Object Explorer

Connect

SQLQuery2.sql - Wl...ws-poco\allwi (57) SQLQuery1.sql - Wl...ws-poco\allwi (54) WINDOWS POCO.etsales - Diagram 1

```
SELECT TOP (1000) [custid_sk]
FROM [etlsales].[dbo].[dim_customer]
```

Results Messages

	custid_sk	custid_bk	fname	lname	email	st_date	end_date	is_current	SSC
7	12009	7	Jermain	Girardeau	jgirardeau6@elpais.com	2025-01-11	NULL	1	1
8	12010	8	Nolly	Bonicelli	nbonicelli7@examiner.com	2025-01-11	NULL	1	1
9	12011	9	Phebe	Curdell	pcurdell8@usa.gov	2025-01-11	NULL	1	1
10	12012	10	Euell	Gulder	egulder9@theforest.net	2025-01-11	NULL	1	1
11	12013	11	Teriann	Marritt	tmarritta@va.gov	2025-01-11	NULL	1	1
12	12014	12	Filmer	Douse	fdouseb@foxnews.com	2025-01-11	NULL	1	1
13	12015	13	Daisey	Lamball	dlamballc@skyrock.com	2025-01-11	NULL	1	1
14	12016	14	Gusella	Quogan	gquogand@whitehouse.gov	2025-01-11	NULL	1	1
15	12017	15	Lonnie	Cambden	lcambdene@mpa.ora	2025-01-11	NULL	1	1
16	12018	16	Debby	Huyghe	dhuyghe@nbc.com	2025-01-11	NULL	1	1
17	12019	17	Ignace	Fursey	ifursey@nbc.com	2025-01-11	NULL	1	1
18	12020	18	Andrei	Jefferson	ajefferson@nbc.com	2025-01-11	NULL	1	1
19	12021	19	Sanford	Gillbe	sgillbe@nbc.com	2025-01-11	NULL	1	1
20	12022	20	Kali	Sedgeb...	ksedgebeerj@bbc.co.uk	2025-01-11	NULL	1	1
21	12023	21	Krishnah	Traite	ktraitek@state.gov	2025-01-11	NULL	1	1
22	12024	22	Alieu	Saltia	asaltia@monofruit.com	2025-01-11	NULL	1	1

Query executed successfully.

WINDOWS-POCO (12.0 SP3) windows-poco\allwi (57) etsales 00:00:01 1,000 rows

Destination Sample Gravity Books DWH

SSIS Toolbox

This tool window can only be used by a SQL Server Integration Services package document.

DWH PROJ.cube [Design]

Measures

- [DWH PROJ]
 - [Fact Order Line]
 - [Dim Cust Order]

Dimensions

- [DWH PROJ]
 - [Dim Cust Order]
 - [Dim Book]
 - [Dim Date]
 - [Dim Customer]

Data Source View

Output

Show output from:

Error List Output

Properties

DWH PROJ Cube

Language: Regular

ProcessingMode: Regular

ProcessingPriority: 0

Source: DWH PROJ (Data source view)

Visible: True

Basic

Description: DWH PROJ

ID: DWH PROJ

Name: DWH PROJ

Name Specifies the name of the object.

SSAS CUBE PREVIEW

