

Group 7 (Jeffrey Pulinat, Thanushan Varatharajah, Jonathon Yu, Qiman Wang)

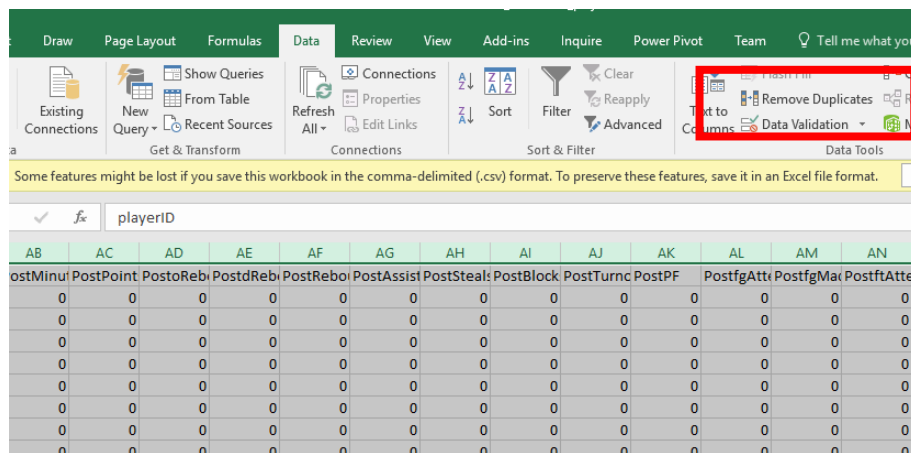
SSQL Database, diagram and type up- Jeffrey Pulinat

Dax Formulas- Thanushan Varatharajah, Jonathon Yu, Qiman Wang, Jeffrey Pulinat

## ER Diagram and Project Details

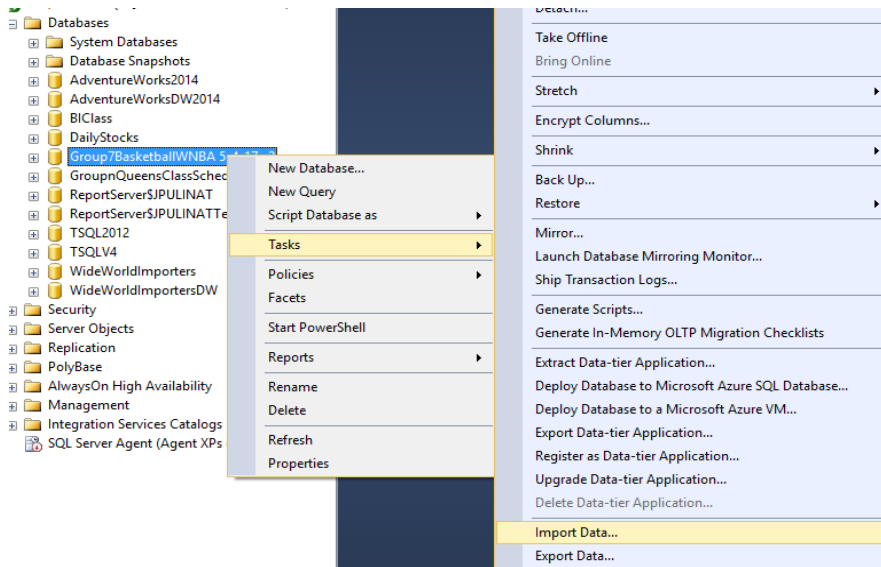
### Importing Data

Edited all csv files with Excel. Highlighted all columns and used Remove Duplication, which can be found in the Data Tab. Master csv was the only one with duplicates and had three columns removed.



AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN
PostMinu	PostPoint	PostoReb	PostdReb	PostRebo	PostAssis	PostSteal	PostBlock	PostTurnc	PostPF	PostfgAtt	PostfgMac	PostftAtt
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0

Created a new database called Group7BasketballWNBA. Imported Data from the csv files by right clicking database>Tasks>Import Data.



Data Source was Flat File Source. Format: Delimited

Text qualifier: “

Header row delimiter {CR}{LF}

Header rows to skip: 0

Column names in the first row

Flat File Source

Select a file and specify the file properties and the file format.

File name: C:\Users\User Name\Desktop\WomensBBDB\wom\_bas Browse...

Locale: English (United States) ☐ Unicode

Code page: 1252 (ANSI - Latin I)

Format: Delimited

Text qualifier: "

Header row delimiter: {CR}{LF}

Header rows to skip: 0

☒ Column names in the first data row

Follow the steps and clicking next. For destination, I used .Net Framework Data Provider for SQL to connect and changed the following options.

Security	
Authentication	NotSpecified
Column Encryption Setting	Disabled
Encrypt	False
Integrated Security	True
Password	
Persist Security Info	False
TrustServerCertificate	False
User ID	

Source	
AttachDbFilename	
Context Connection	False
Data Source	localhost
Failover Partner	
Initial Catalog	WideWorldImporters
MultiSubnetFailover	False
TransparentNetworkIPResolution	True
User Instance	False

**Initial Catalog**  
The name of the initial catalog or database in the data source.

Click Next. You can edit mappings, table name. There is an option to edit in SQL. So, I can copy and paste my SQL create table query I have made for every table. I repeated this step for every

csv file.

Source: C:\Users\User Name\Desktop\WomensBBDB\wom\_basketball\_master.csv

Destination: "dbo"."wom\_basketball\_master"

☒ Create destination table

☐ Delete rows in destination table ☐ Drop and re-create destination table

☐ Append rows to the destination table ☐ Enable identity insert

Mappings:

Source	Destination	Type	Nullable	Size	Precision	Scale
bioID	bioID	varchar	<input checked="" type="checkbox"/>	50		
firstName	firstName	varchar	<input checked="" type="checkbox"/>	50		
middleName	middleName	varchar	<input checked="" type="checkbox"/>	50		
lastName	lastName	varchar	<input checked="" type="checkbox"/>	50		
nameGiven	nameGiven	varchar	<input checked="" type="checkbox"/>	50		
fullGivenName	fullGivenName	varchar	<input checked="" type="checkbox"/>	50		
marriedName	marriedName	varchar	<input checked="" type="checkbox"/>	50		
nameNick	nameNick	varchar	<input checked="" type="checkbox"/>	50		
pos	pos	varchar	<input checked="" type="checkbox"/>	50		

Source column: bioID string [DT\_STR] (50)

## Starting Normalization

Created new tables called Players, Coaches and Teams. Used SQL commands INSERT and SELECT DISTINCT to get a table with distinct data.

Example:

```
INSERT INTO target_table (col1, col2, col3)
SELECT DISTINCT st.col1, st.col2, st.col3
FROM source_table st
```

```
INSERT INTO Coaches (coachID)
SELECT DISTINCT st.coachID
FROM CoachInfo st
```

## Primary/Foreign Key Relationships

Set primary keys. Added a new row for some tables representing row ID's to have a unique distinct column to make the primary key.

```
alter table Example
add New Column int identity(1,1)
```

```
HP\JPULINAT.Group...17 v2 - Diagram_0 SQLQuery1.sql -
1 alter table Players
2 add rowIDPlayers int identity(1,1)
```

Column Name	Data Type	Allow Nulls
rowIDPlayers	int	<input type="checkbox"/>
playerID	varchar(11)	<input checked="" type="checkbox"/>
year	varchar(4)	<input checked="" type="checkbox"/>
stint	int	<input checked="" type="checkbox"/>
tmlID	varchar(3)	<input checked="" type="checkbox"/>
lglID	varchar(4)	<input checked="" type="checkbox"/>
GP	int	<input checked="" type="checkbox"/>

On the Design Page of the table. Right click. Click Relationships. Click the arrow on Tables and Columns... Enter in foreign table and column and the Base table and column. Did this for all tables in database. You can add more relationship on a table by clicking add on the bottom left.

Foreign Key Relationships ? X

Selected Relationship:

- FK\_PlayersDetail\_Players
- FK\_PlayersDetail\_Teams
- FK\_PlayersDetail\_Years

Editing properties for existing relationship.

▼ (General)

Check Existing Data On Creati Yes

▼ Tables And Columns Specific...

Foreign Key Base Table	Players
Foreign Key Columns	playerID
Primary/Unique Key Base	PlayerMaster
Primary/Unique Key Colu	biolD

▼ Identity

(Name)	FK_PlayersDetail_Players
Description	

▼ Table Designer

Add Delete Close

## ER Diagram

Right click on Database Diagrams in your database and click New Database Diagram. Add Table will pop up. Add all the tables you need. In my case, all of them.

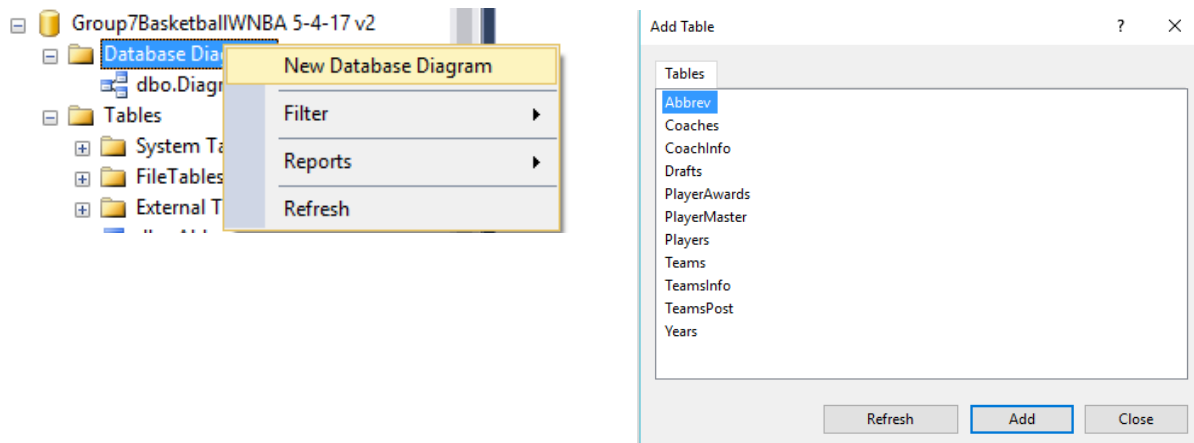


Diagram will auto create itself. You can move tables around as you please.

