

Dimensional Modeling

- Dimensional Modeling :

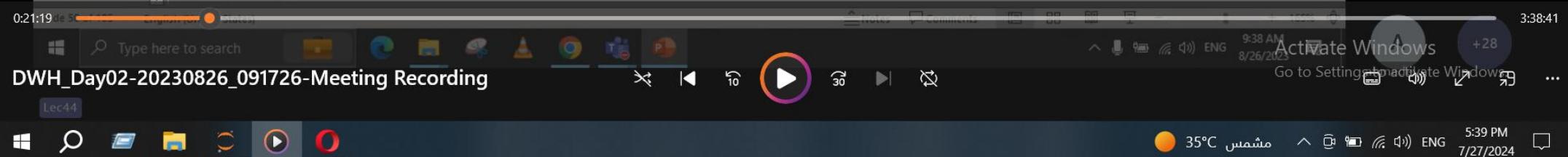
- Fact tables

- Dimensions(FK)
 - Facts(Numeric /Measure) (Agg)

- Dimension tables

- Attributes

Click to add notes



Dimensional Modeling

- **Dimensional Modeling :**
- **Fact tables**
 - Dimensions(FK)
 - Facts(Numeric /Measure) (Agg)
- **Dimension tables**
 - Attributes



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Elements of Dimensional Modeling

- **Facts:** are numerical measures of business events, such as sales or orders.
- **Dimensions:** are descriptive attributes that provide context for the facts, such as product, customer, or date.
- **Attributes :** are the various characteristics of the dimension. In the previous examples, the attributes can be customer details (from customer_id get the gender, age, nationality, etc.).

Definitions of the Fact Table and Dimension Table from (((Ralph Kimball's)))book are below

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Dimensional Modeling

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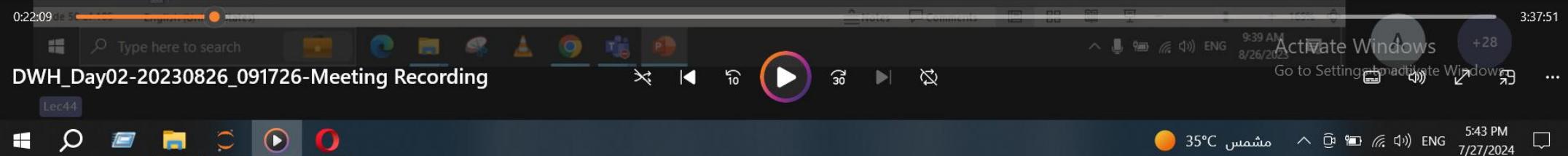
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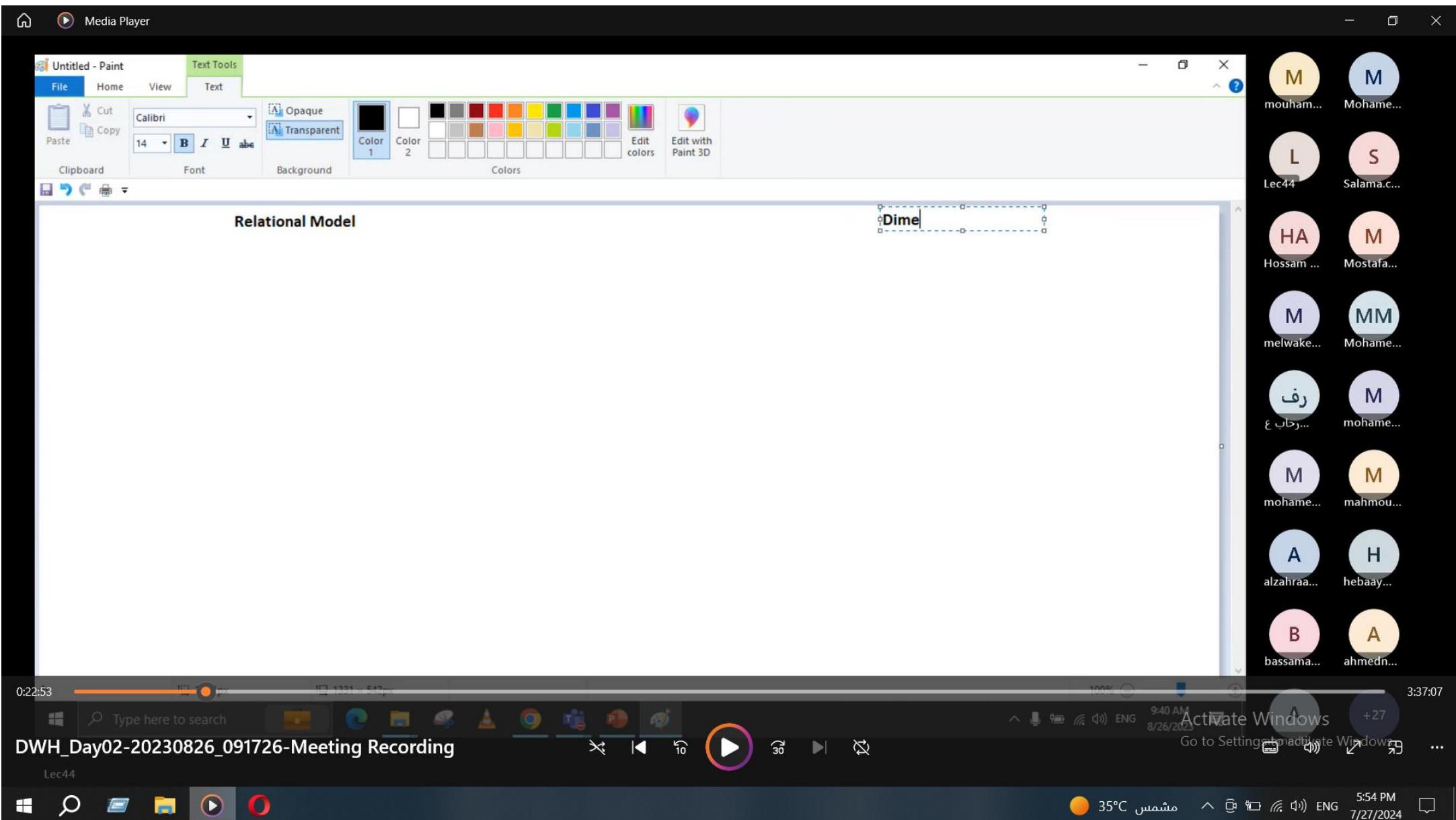
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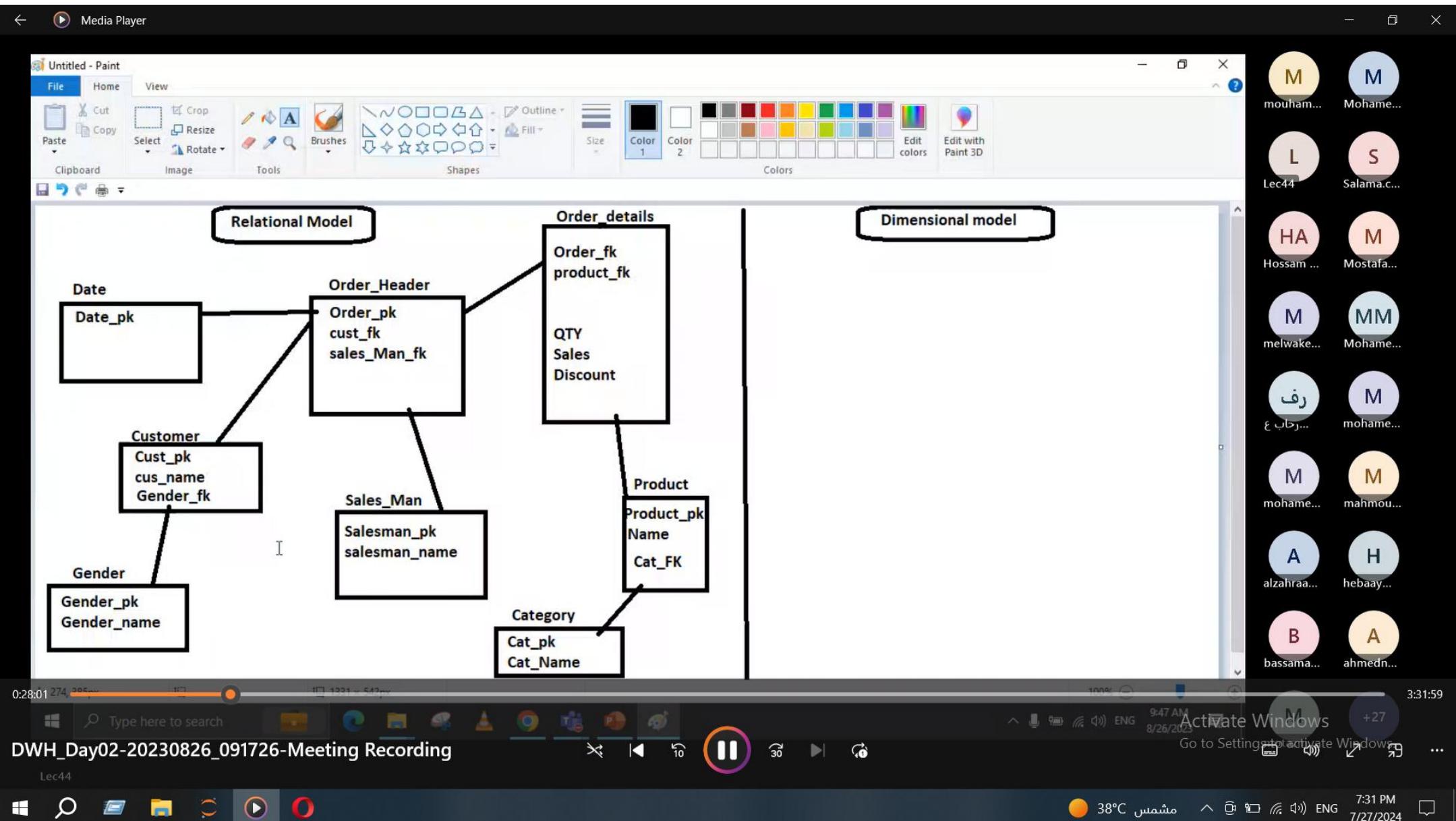
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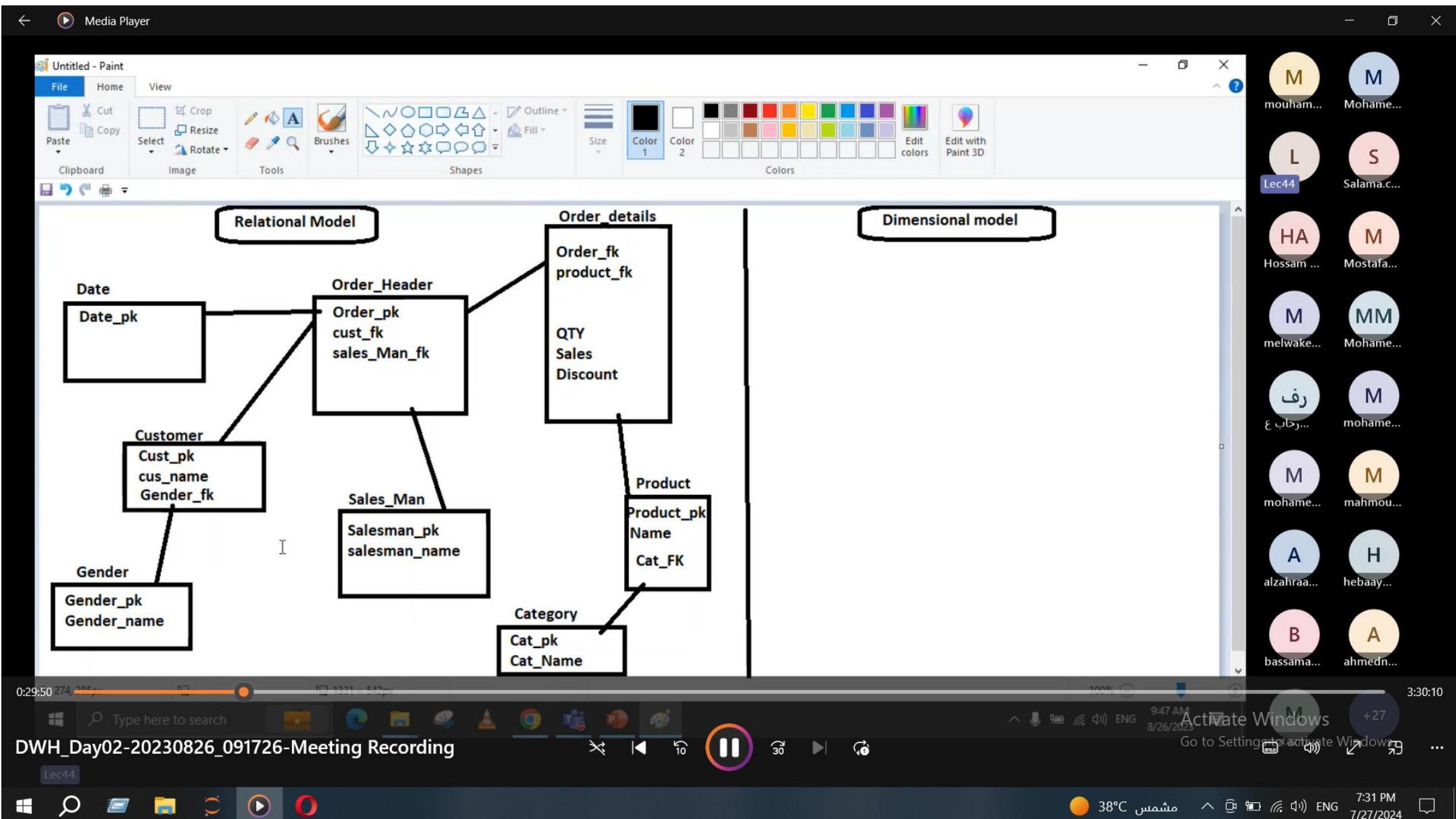
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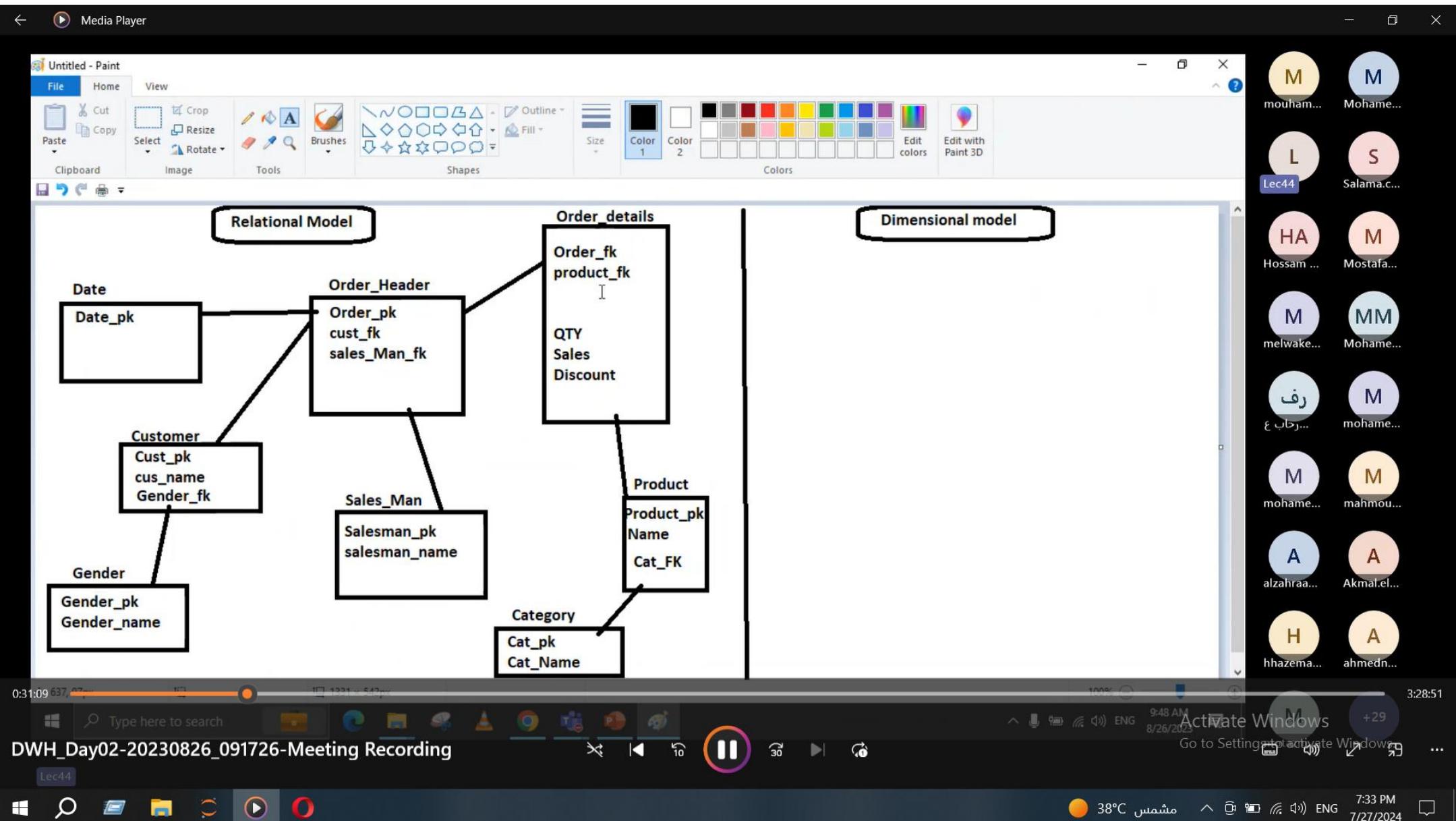
Elements of Dimensional Modeling

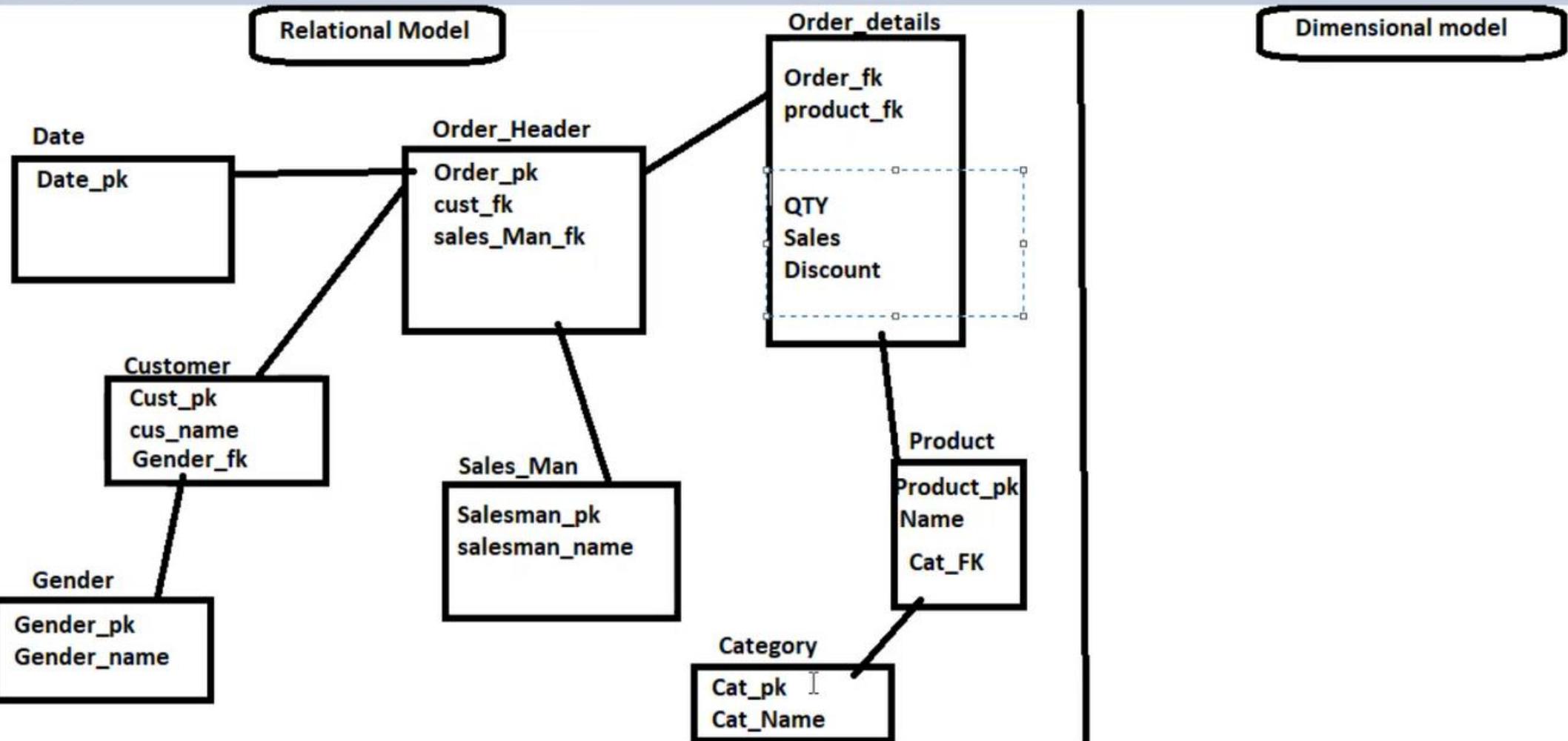
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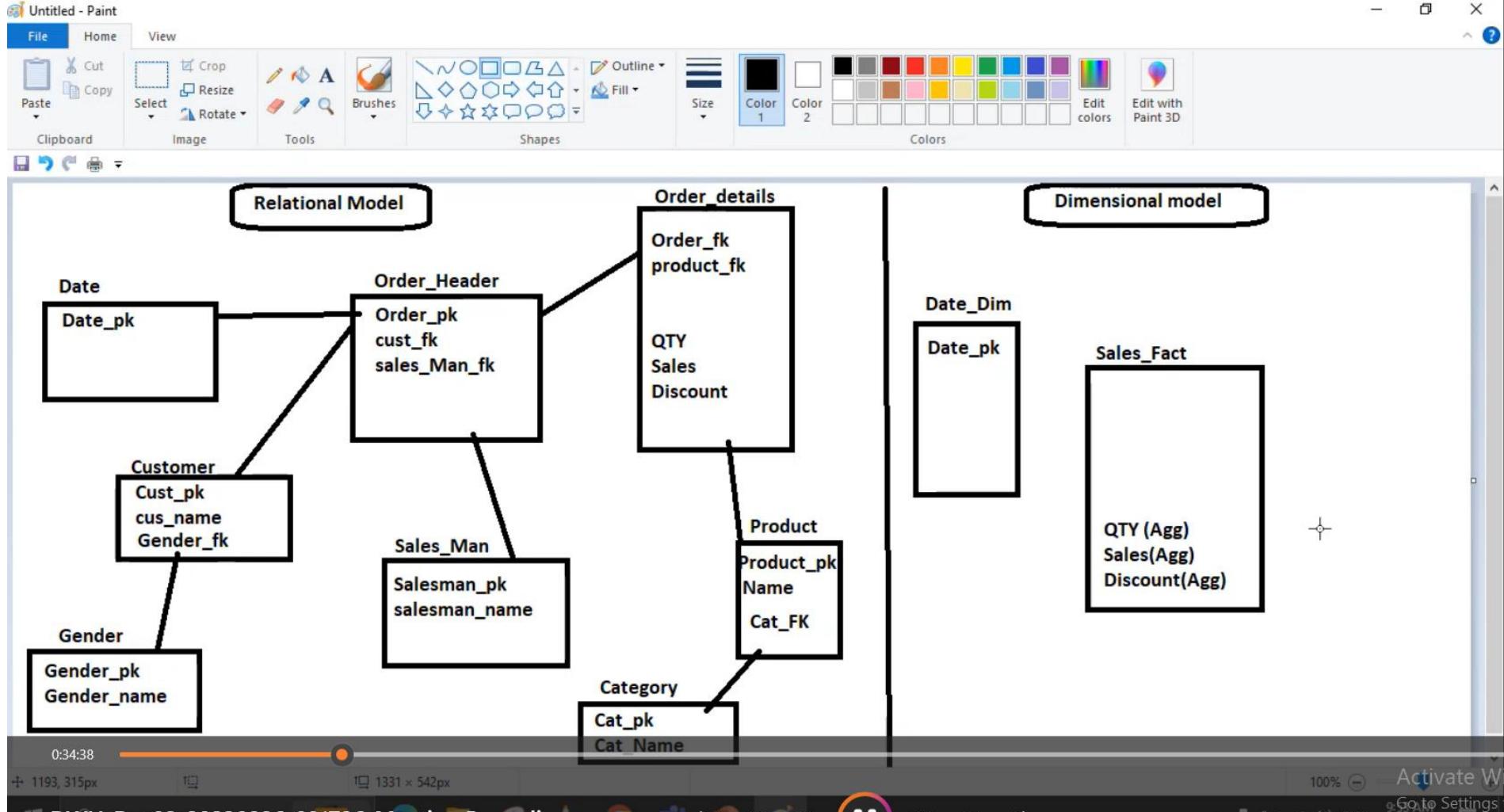


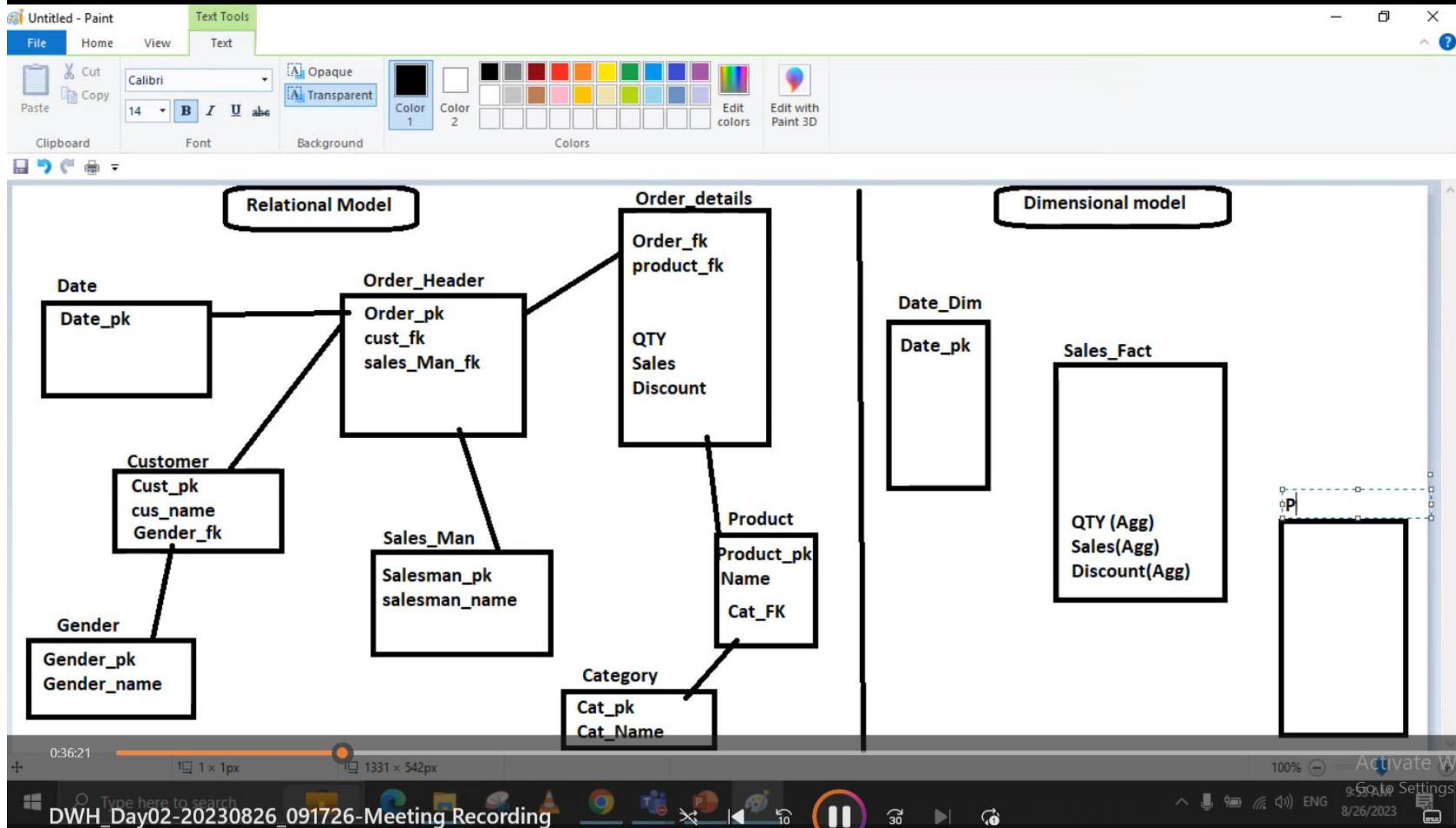


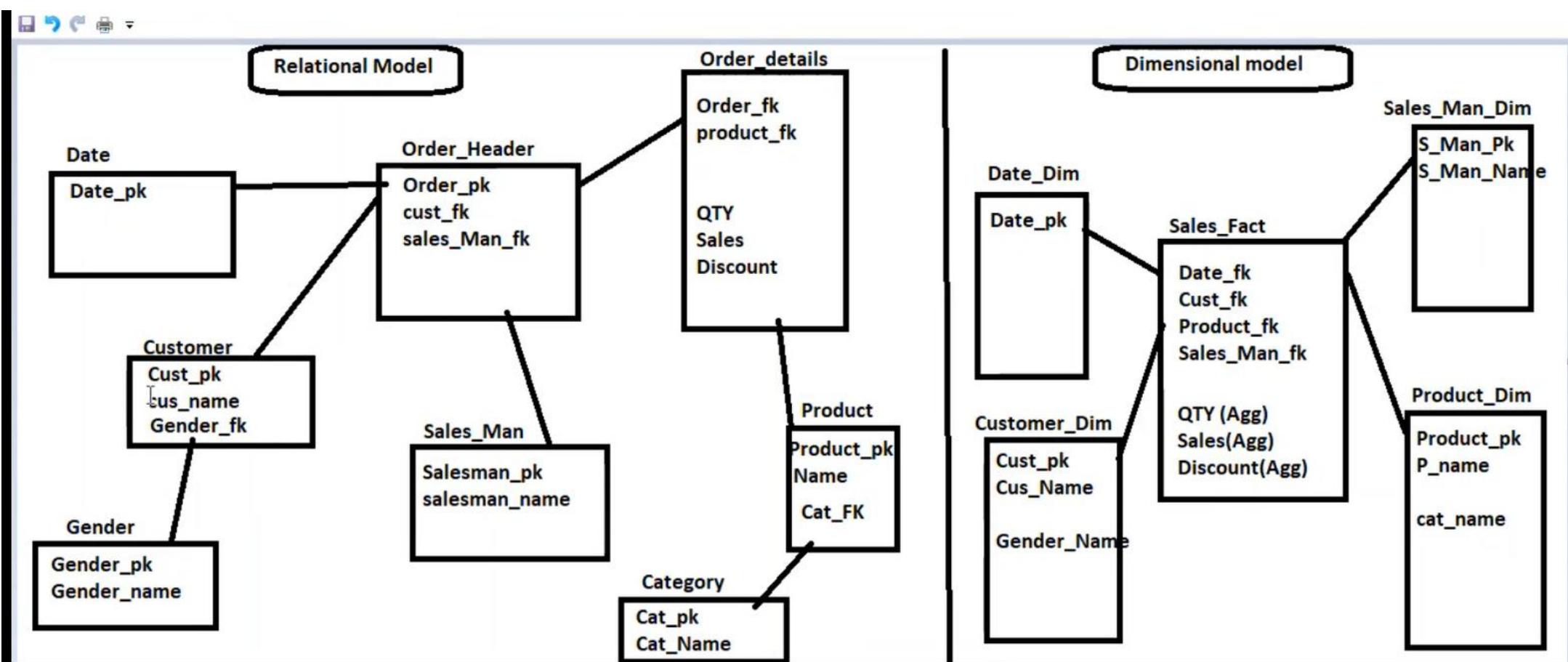
Dimensional model

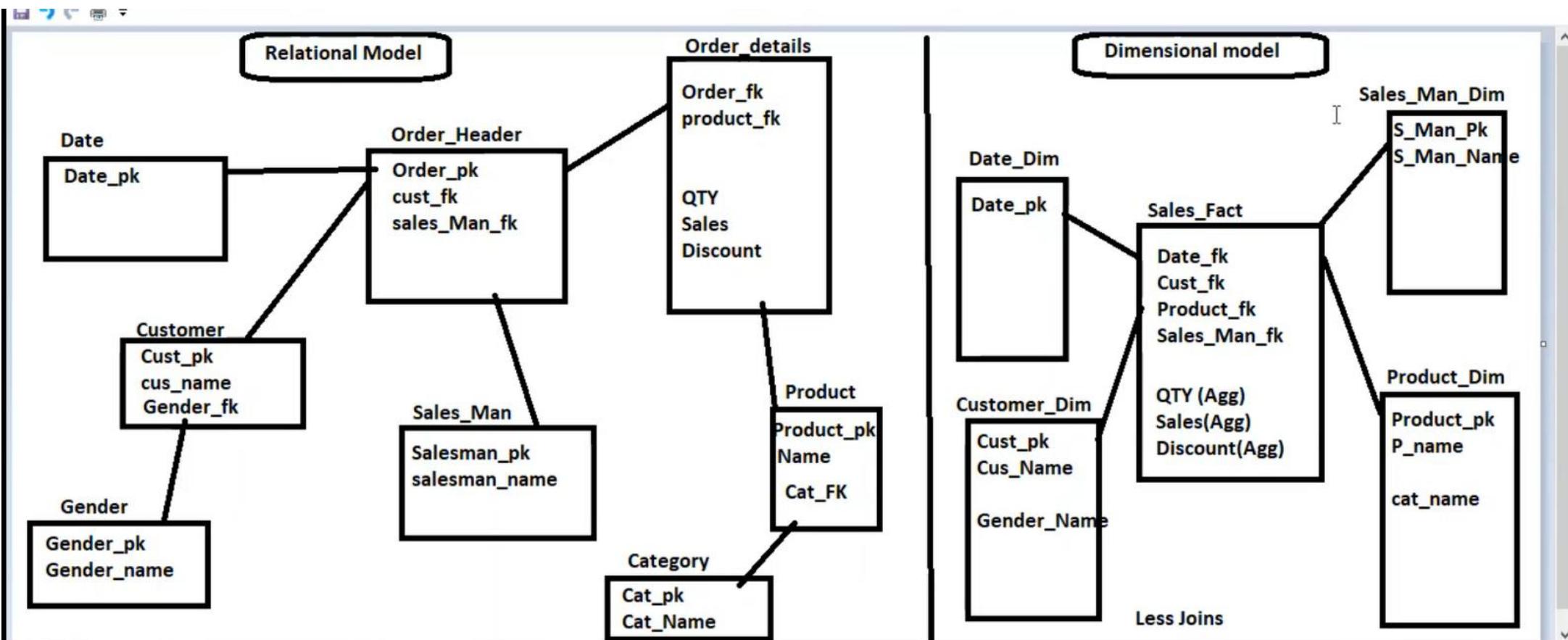
Sales_Fact

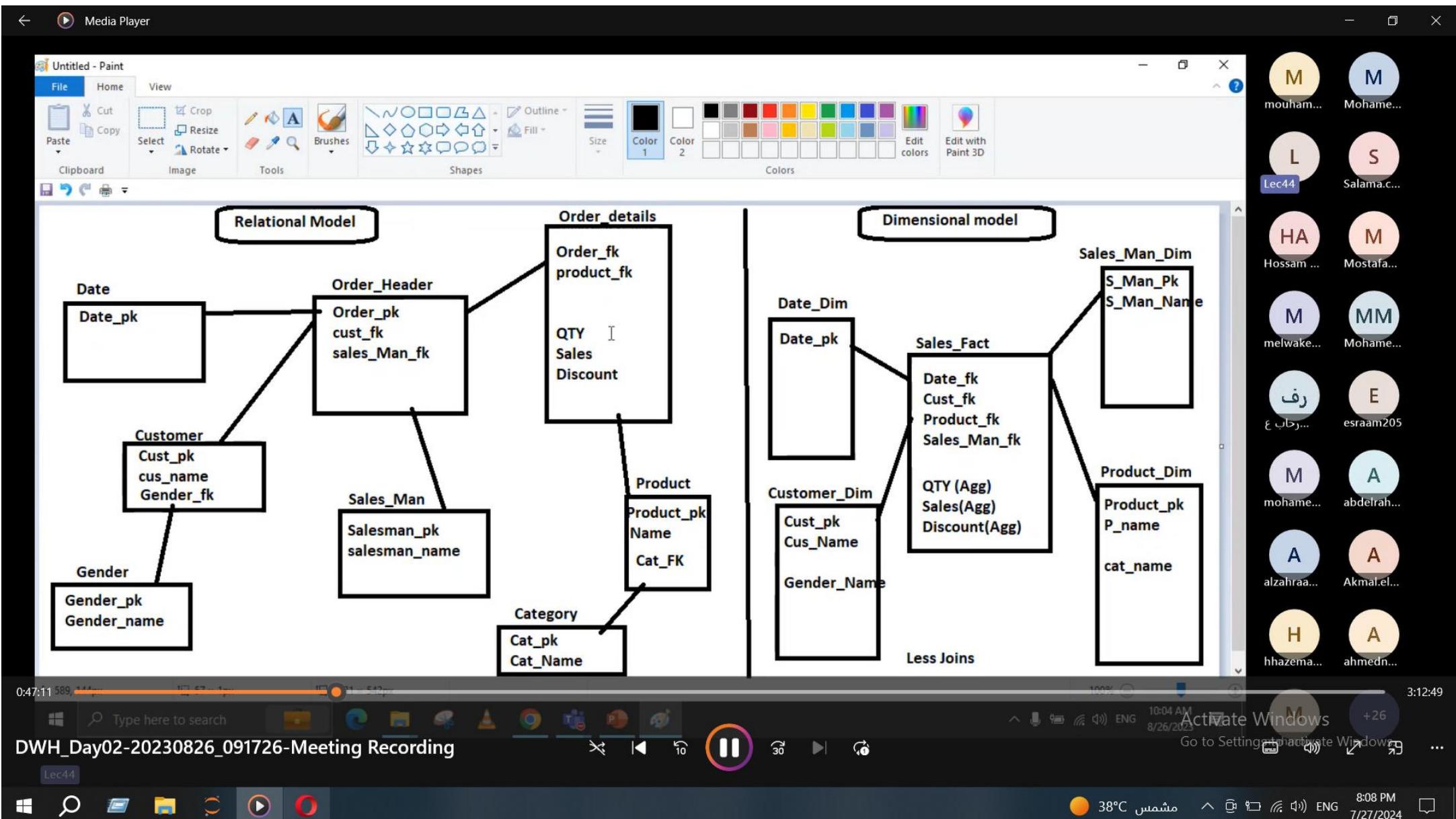
QTY (Agg)
Sales(Agg)
Discount(Agg)

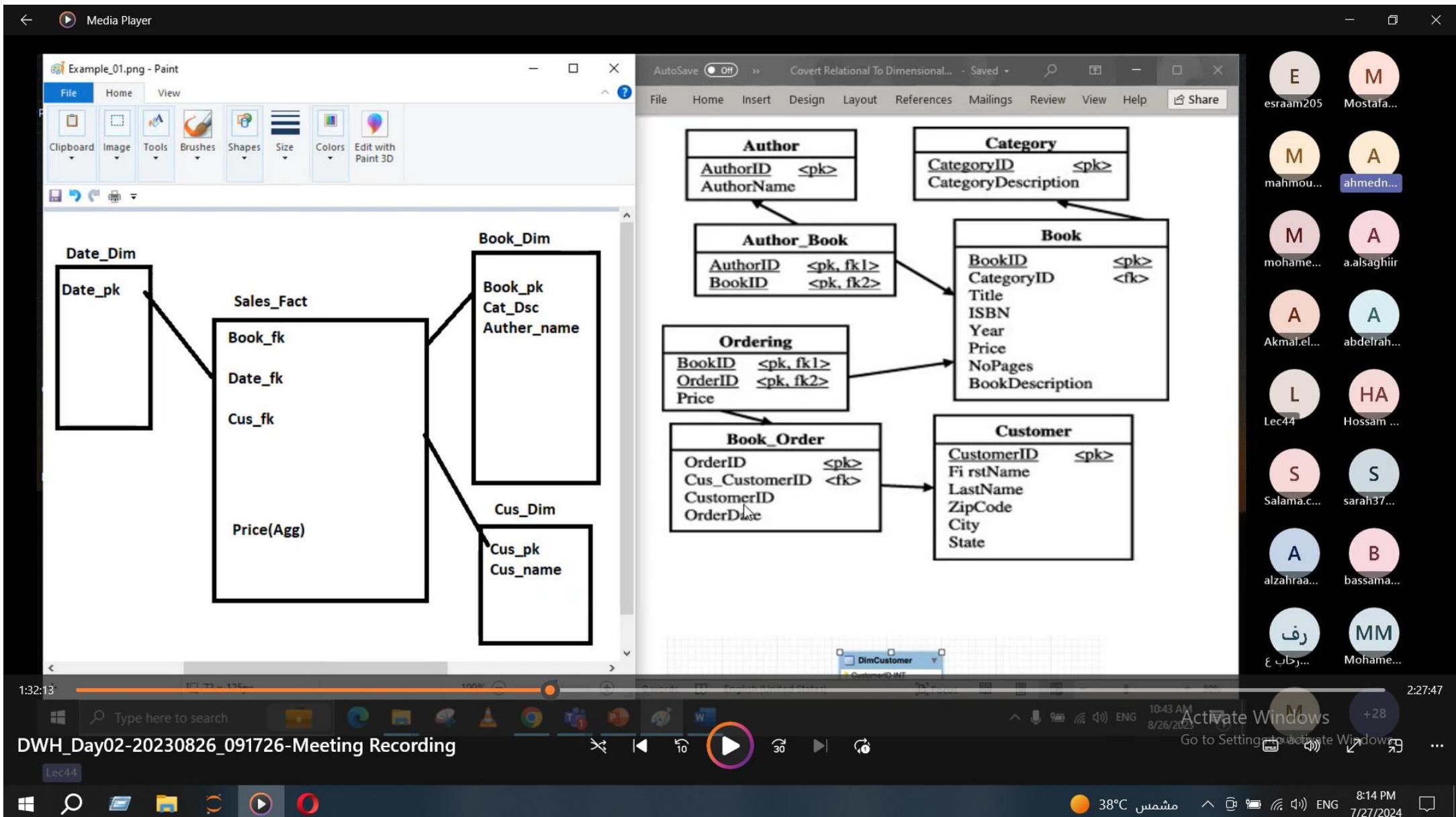












Dimensional Modeling

- Dimensional Modeling :

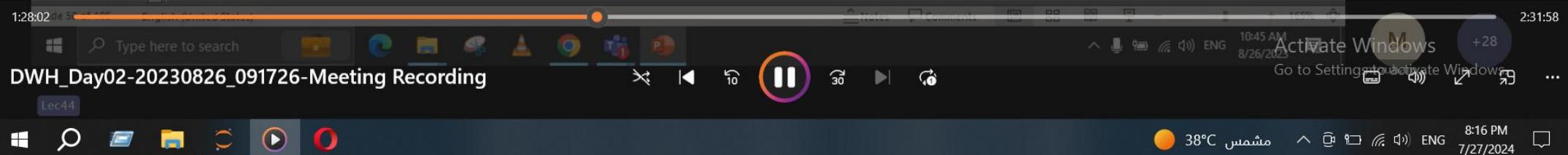
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Elements of Dimensional Modeling

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Definitions of the Fact Table and Dimension Table from (((Ralph Kimball's)))book are below

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E esraam205 M Mostafa... M mahmou... A ahmedn... M mohame... A a.alsaghir M Akmat.el... A abdelrah... L Lec44 HA Hossam ... S Salama.c... M melwake... A alzahraa... B bassama... رف رجب ع MM Mohamed...

(Fact table) Elements of Dimensional Modeling

- **Fact table :** is a primary table in a dimensional model. A Fact Table contains (Measurements/facts and Foreign key to dimension table). It located at the center of a star or snowflake schema and surrounded by dimensions.
- Most data in data warehouse is in fact tables, which can be extremely large
- Read-only data that will not change over time
- Most useful fact tables contain one or more numerical measures, or ‘facts’ that occur for each record.

● fact table surrounded by and connected to several

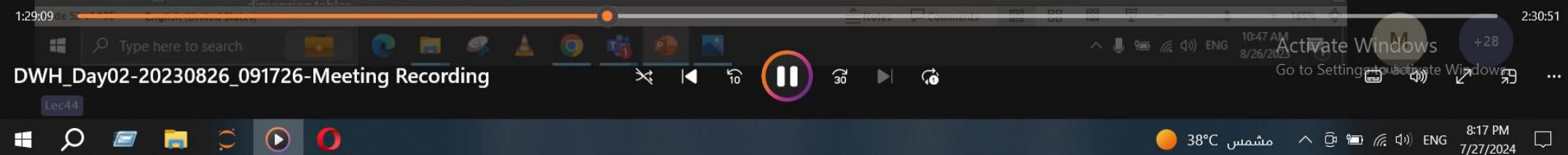
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Akmat.el... A A abdelrah...

Lec44 L HA Hossam ...

Salama.c... S M melwake...

alzahraa... A B bassama...

رجب... MM Mohamed...

fact table surrounded by and connected to several

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Relational Model

```

    graph LR
        Date[Date  
Date_pk] --> OrderHeader[Order_Header  
Order_pk  
cust_fk  
sales_Man_fk]
        Customer[Customer  
Cust_pk  
cus_name  
Gender_fk] --> OrderHeader
        Gender[Gender  
Gender_pk  
Gender_name] --> Customer
        SalesMan[Sales_Man  
Salesman_pk  
salesman_name] --> OrderHeader
        Category[Category  
Cat_pk  
Cat_Name] --> Product[Product  
Product_pk  
Name  
Cat_FK]
        OrderHeader --> OrderDetails[Order_details  
Order_fk  
product_fk  
QTY  
Sales  
Discount]
        Product --> OrderDetails
    
```

Dimensional model

```

    graph LR
        DateDim[Date_Dim  
Date_pk] --> SalesFact[Sales_Fact  
Date_fk  
Cust_fk  
Product_fk  
Sales_Man_fk  
QTY(Agg)  
Sales(Agg)  
Discount(Agg)]
        CustomerDim[Customer_Dim  
Cust_pk  
Cus_Name  
Gender_Name] --> SalesFact
        SalesFact --> SalesManDim[Sales_Man_Dim  
S_Man_pk  
S_Man_Name]
        ProductDim[Product_Dim  
Product_pk  
P_name  
cat_name] --> SalesFact
    
```

Less Joins

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A Akmal.el... A abdelrah...
L Lec44 HA Hossam ...
S Salama.c... M melwak...
A alzahraa... B bassama...
رجب ع MM Mohamed...

Fact table

- Fact table :

Sale Fact Table	
Date_ID (fk)	
Product_ID (fk)	
Store_ID (fk)	
Customer_ID(fk)	
Items_sold	
Sale_value	

Dimensions (FK)

Facts(Agg)

fact table surrounded by and connected to several

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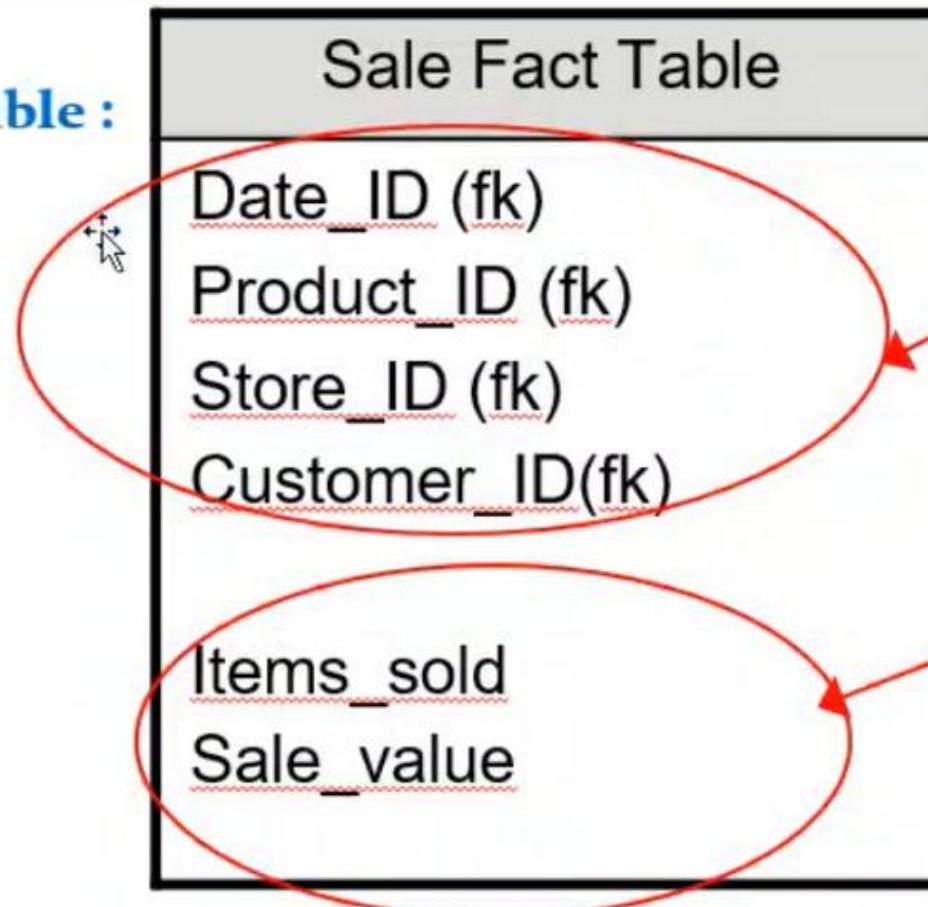
S Salama.c... M melwake...

A alzahraa... B bassama...

ر ف رجب ع MM Mohamed...

Fact table

- Fact table :



Dimensions (FK)

Facts(Agg)

(Dimension table) Elements of Dimensional Modeling

- Dimension tables usually contain descriptive textual information
- Dimension attributes are used as conditions in data warehouse queries
- In star schema, dimension table is denormalized to improve query performance

● fact table surrounded by and connected to several

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(Dimension table) Elements of Dimensional Modeling

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- In star schema, dimension table is denormalized to improve query performance

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alzahraa... A B bassama...

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Slide 55 of 105 English (United States)

fact table surrounded by and connected to several dimension tables

(Dimension table) Elements of Dimensional Modeling

Example: Dimension Tables

Product Dimension Table

Product_ID (pk)
Name
Description
Category
Weight
Package type

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(Dimension table) Elements of Dimensional Modeling

Example: Dimension Tables

Product Dimension Table

Product_ID (pk)
Name
Description
Category
Weight
Package type

fact table surrounded by and connected to several

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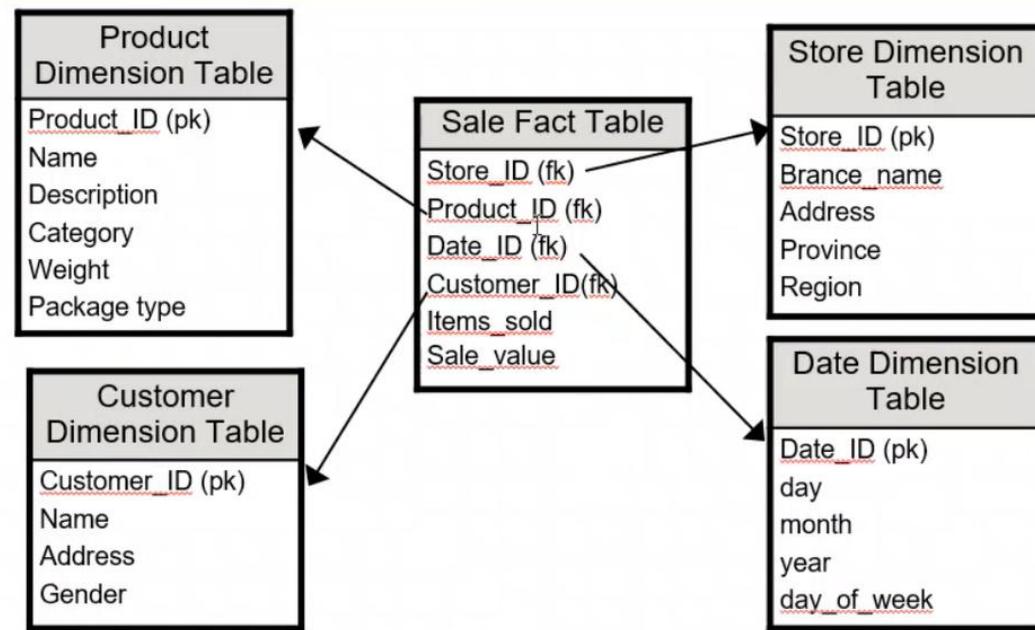
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Connecting Fact and Dimension Tables(Star Schema)



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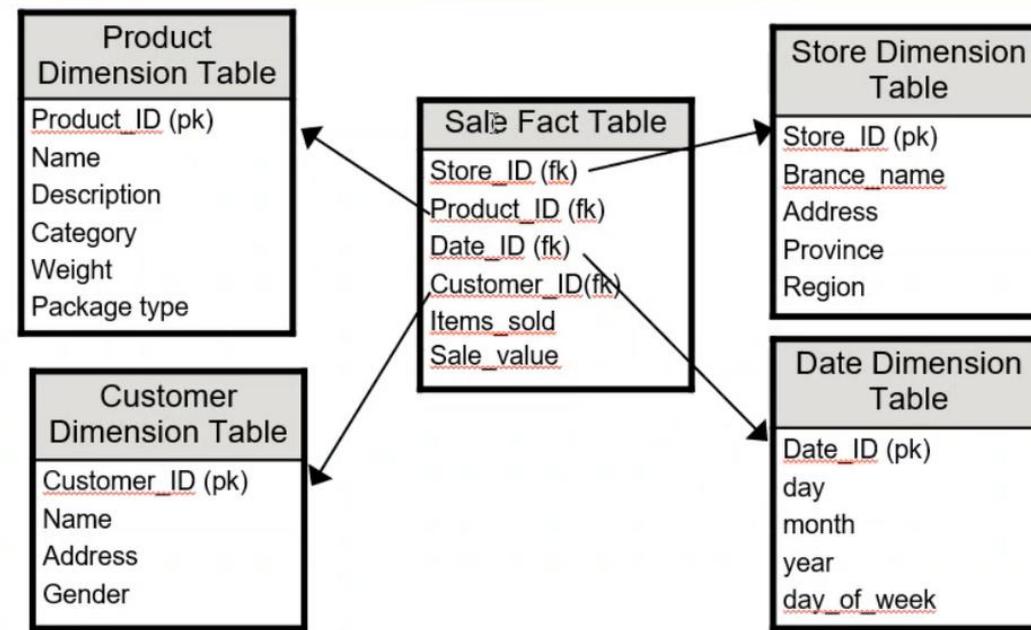
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Connecting Fact and Dimension Tables(Star Schema)



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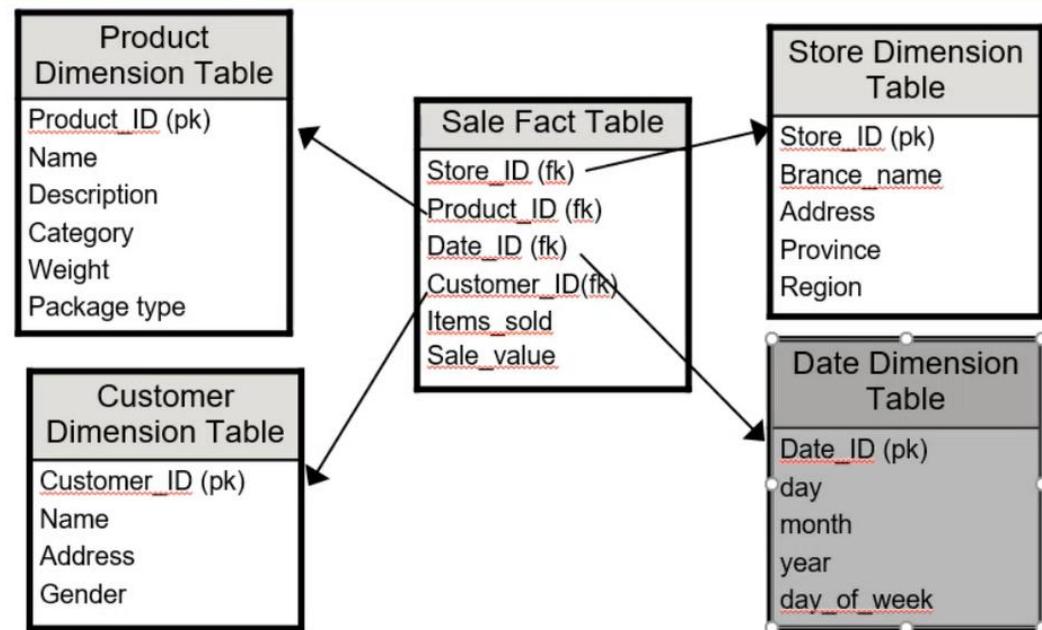
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Connecting Fact and Dimension Tables(Star Schema)



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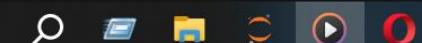
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Benefits of Dimension Model

- Simplicity
 - Data is easier to understand and navigate for business users
- Performance
 - Query processed more efficiently with fewer joins
- Easy for creating reports
 - Fact tables provide numeric values
 - Dimension attributes provide report labels.

fact table surrounded by and connected to several

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Dimensional model life cycle:

- Steps to create Dimension Model:
 - The Gathering Requirements (Source Driven, Business/User Driven).
 - Identify granularity of the facts (Level of details)
 - Identify the dimensions
 - Identify the facts

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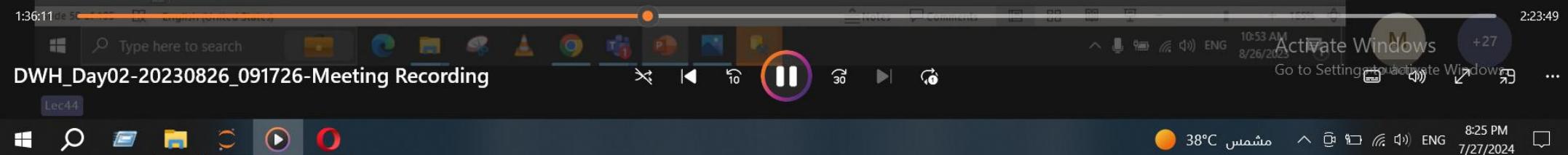
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Examples.xlsx - Excel

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Clipboard Font Alignment Number Styles Cells Editing

J19 : DWH

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

Periodic Snapshot Fact Table | Accumulating Fact Table | Transaction_Fact_Table | OLTP | Natural ... | + | 1:38:44 | 2:21:16

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Examples.xlsx - Excel

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J19 : DWH

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

Periodic Snapshot Fact Table | Accumulating Fact Table | Transaction_Fact_Table | OLTP | Natural ... | + | 1:39:23 | 2:20:37

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esraam205 E M Mostafa... esraa.ma... E A ahmedn... ali.abdull... A ayashei... Akmal.el... A abdelrah... Lec44 HA Hossam ... S A Salama.c... abdelrah... A B alzahraa... bassama... E MM emanab... Mohamed...

The screenshot shows a Microsoft Excel spreadsheet titled "Examples.xlsx - Excel". The ribbon is visible with tabs like File, Home, Insert, Page Layout, Formulas, Data, Review, View, Power Pivot, and Team. The Home tab is selected. The formula bar at the top displays "PTP". The main content is a table named "Fact Sales" with the following schema:

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	PTP	I	
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

The status bar at the bottom indicates "OLTP" and "Natural...". The taskbar shows various open applications including File Explorer, Edge, File Manager, Task View, and a video player displaying a recording of "DWH_Day02-20230826_091726-Meeting Recording". The system tray shows the date as 8/26/2023 and the time as 10:59 AM.

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Clipboard Font Alignment Number Styles Cells Editing

A1 Transaction_id

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_id	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120	+		

Fact Sales

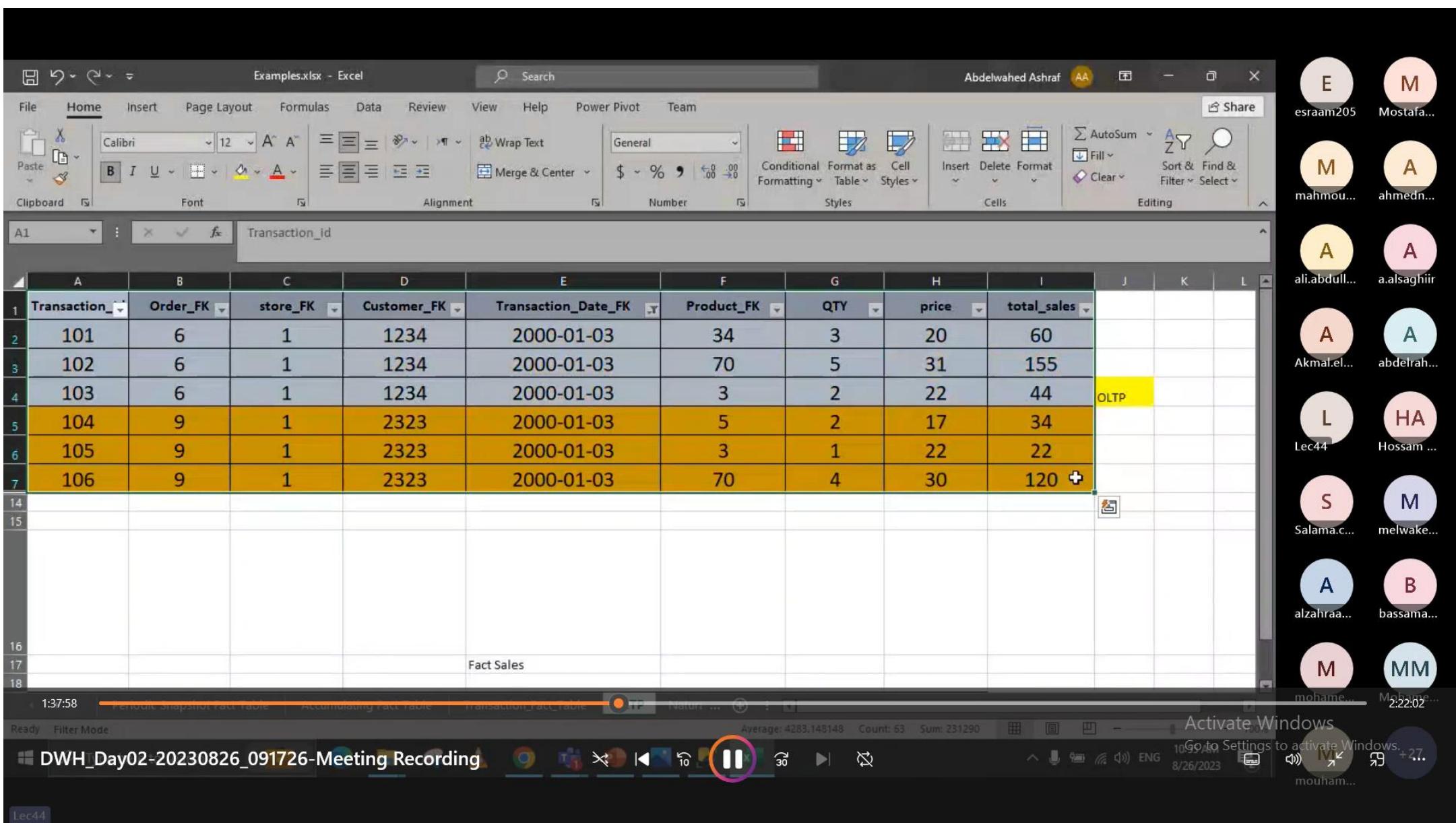
1:37:58 2:22:02

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 10 8/26/2023 +27 mouham...

esraam205 Mostafa... mahmou... ahmedn... ali.abdull... a.alsaghiir Akmal.el... abdelrah... Lec44 Hossam ... Salama.c... melwake... alzahraa... bassama... M MM mohame... mohame... Lec44



Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Font Alignment Number Styles Cells Editing

A2 : X ✓ fx 101

A	B	C	D	E	F	G	H	I	J	K	L
103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
104	9	1	2323	2000-01-03	5	2	17	34			
105	9	1	2323	2000-01-03	3	1	22	22			
106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

Count_Trns	Order_Count	Store_Count	Cus_Count	Periodict_Date	Product_Count	Total_QTY	Total_Sales
6	2	1	2	2000-01-03	4	17	435

1:38:23 2:21:37

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows

10 Go to Settings to activate Windows 8/26/2023 +27

mouham... MM

esraam205 Mostafa... mahmou... ahmedn... ali.abdull... a.alsaghiir Akmal.el... abdelrah... Lec44 Hossam ... Salama.c... melwake... alzahraa... bassama... M MM

Lec44

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Clipboard Font Alignment Number Styles Cells Editing

A4 : X ✓ fx 103

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

1:39:54 10:00:00 2:20:06

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 8/26/2023 +26. mouham...

Abdelwahed Ashraf AA

esraam205 Mostafa...

esraa.ma... ahmedn...

ali.abdull... ayashei...

Akmal.el... abdelrah...

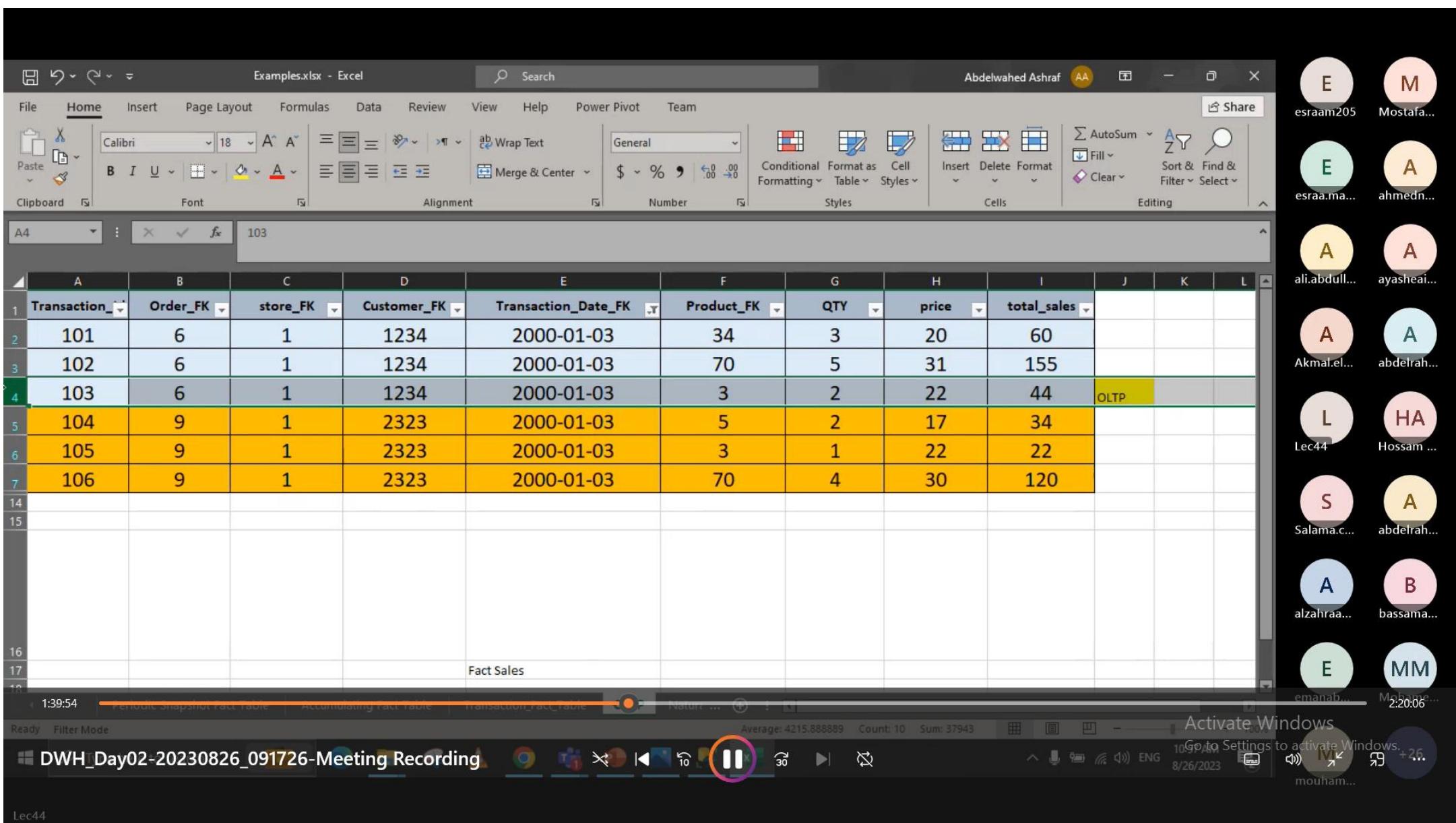
Lec44 Hossam ...

Salama.c... abdelrah...

alzahraa... bassama...

E MM emanab... Mohamed...

Lec44



Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Font Alignment Number Styles Cells Editing

I4 : DWH

	E	F	G	H	I	J	K	L	M
2	Product_FK	QTY	price	total_sales					
3	34	3	20	60	DWH	I			
4	70	5	31	155					
5	3	2	22	44					
6	5	2	17	34					
7	3	1	22	22					
8	70	4	30	120					
15									
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23									
24									
25									

1:40:49 10:00 AM 8/26/2023 2:19:11

Activate Windows Go to Settings to activate Windows.

DWH_Day02-20230826_091726-Meeting Recording Lec44

esraam205 Mostafa... esraa.ma... ahmedn... ali.abdull... ayashei... Akmal.el... abdelrah... Lec44 Hossam ... Salama.c... abdelrah... alzahraa... bassama... emanab... mohame... E MM

mouham...

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Clipboard Font Alignment Number Styles Cells Editing

I4 : DWH

A	B	C	D	E	F	G	H
Transaction_id	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales
101	1	1234	2000-01-03	34	3	20	60
102	1	1234	2000-01-03	70	5	31	155
103	1	1234	2000-01-03	3	2	22	44
104	1	2323	2000-01-03	5	2	17	34
105	1	2323	2000-01-03	3	1	22	22
106	1	2323	2000-01-03	70	4	30	120

1:40:57 10:00 AM 8/26/2023 2:19:03

Activate Windows Go to Settings to activate Windows mouham... +26.

DWH_Day02-20230826_091726-Meeting Recording Lec44

esraam205 Mostafa... esraa.ma... ahmedn... ali.abdull... ayashei... Akmal.el... abdelrah... Lec44 Hossam ... Salama.c... abdelrah... alzahraa... bassama... emanab... Mohamed... E MM

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Font Alignment Number Styles Cells Editing

A2 : X ✓ fx 101

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

1:41:03 2:18:57

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows

10 Go to Settings to activate Windows. 8/26/2023 +26. mouham...

Abdelwahed Ashraf AA

esraam205 Mostafa...

esraa.ma... ahmedn...

ali.abdull... ayashei...

Akmal.el... abdelrah...

Lec44 Hossam ...

Salama.c... abdelrah...

alzahraa... bassama...

E MM emanab... Mohamed...

lec44

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Font Alignment Number Styles Cells Editing

I4 : DWH

	A	B	C	D	E	F	G	H
2	Transaction_id	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales
3	101	1	1234	2000-01-03	34	3	20	60
4	102	1	1234	2000-01-03	70	5	31	155
5	103	1	1234	2000-01-03	3	2	22	44
6	104	1	2323	2000-01-03	5	2	17	34
7	105	1	2323	2000-01-03	3	1	22	22
8	106	1	2323	2000-01-03	70	4	30	120
15								
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25								

1:41:11 10:00 AM 8/26/2023 2:18:49

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows mouham... +26. 10:00 AM 8/26/2023

Lec44

Abdelwahed Ashraf AA

esraam205 M Mostafa...

esraa.ma... A ahmedn...

ali.abdull... A ayashei...

Akmal.el... A abdelrah...

Lec44 HA Hossam ...

Salama.c... A abdelrah...

alzahraa... B bassama...

E MM emanab... Mohamed...

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Font Alignment Number Styles Cells Editing

3R x 7C : fx 104

	A	B	C	D	E	F	G	H
2	Transaction_id	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales
3	101	1	1234	2000-01-03	34	3	20	60
4	102	1	1234	2000-01-03	70	5	31	155
5	103	1	1234	2000-01-03	3	2	22	44
6	104	1	2323	2000-01-03	5	2	17	34
7	105	1	2323	2000-01-03	3	1	22	22
8	106	1	2323	2000-01-03	70	4	30	120
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25								

1:41:17 2:18:43

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows
Go to Settings to activate Windows.
8/26/2023 mouham... +26.

Lec44

Abdelwahed Ashraf AA

esraam205 M Mostafa...

esraa.ma... A ahmedn...

ali.abdull... A ayashei...

Akmal.el... A abdelrah...

Lec44 HA Hossam ...

Salama.c... A abdelrah...

alzahraa... B bassama...

E MM emanab... Mohame...

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Clipboard Font Alignment Number Styles Cells Editing

A20 : 6

	A	B	C	D	E	F	G	H	I	J	K	L	
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales				
2	101	6	1	1234	2000-01-03	34	3	20	60				
3	102	6	1	1234	2000-01-03	70	5	31	155				
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP			
5	104	9	1	2323	2000-01-03	5	2	17	34				
6	105	9	1	2323	2000-01-03	3	1	22	22				
7	106	9	1	2323	2000-01-03	70	4	30	120				
14													
15													
16													
17													
18													
19	Fact Sales								DWH				
20	Count_Trns	Order_Count	Store_Count	Cus_Count	Periodict_Date	Product_Count	Total_QTY	Total_Sales		DWH			
21	6	2	1	2	2000-01-03	4	17	435					
22													

1:45:08 11:50 AM 2:14:52

Ready Filter Mode

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11:50 AM 2:14:52

8/26/2023 mouham... +26

1ec44

esraam205 Mostafa... esraa.ma... ahmedn... ali.abdull... ayashei... Akmal.el... abdelrah... L HA Lec44 Hossam ... Salama.c... abdelrah... A B alzahraa... bassama... E MM emanab... Moha...

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

Font Alignment Number Styles Cells Editing

H21 : X ✓ fx 1044

A	B	C	D	E	F	G	H	I	J	K	L
106	9	1	2323	2000-01-03	70	4	30	120			
107	11	1	4422	2000-01-04	34	8	20	160			
108	11	1	4422	2000-01-04	70	5	31	155			
109	11	1	4422	2000-01-04	3	4	22	88			
110	12	1	3333	2000-01-04	5	5	17	85			
111	12	1	3333	2000-01-04	3	13	22	286			
112	12	1	3333	2000-01-04	70	9	30	270			

Fact Sales

Count_Trns	Order_Count	Store_Count	Cus_Count	Periodict_Date	Product_Count	Total_QTY	Total_Sales	DWH
6	2	1	2	2000-01-03	4	17	435	
6	2	1	2	2000-01-04	4	44	1044	

1:49:14 2:10:46

Activate Windows

DWH_Day02-20230826_091726-Meeting Recording

11:50 AM Go to Settings to activate Windows ENG 8/26/2023 +27. mouham...

esraam205 motazm... esraa.ma... ahmedn... ali.abdull... ayashei... Akmal.el... abdelrah... Lec44 Hossam ... Salama.c... abdelrah... alzahraa... bassama... M MM Mostafa... Mohamed... Lec44

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Search

Abdelwahed Ashraf AA

Share

File Home Insert Design Transitions Animations Slide Show Review View Recording Help Storyboarding

Fact Table Recap:

- What is the fact table?
 - It is the foundation of the data warehouse.
 - It consists of facts and measurements of a particular business side and processes ex: daily revenue for a product.
 - It is the target of queries in most of DWH analysis and reports.
 - It contains measurements/facts and foreign keys to dimensions table.
 - It located at the center of the schema and surrounded by dimension tables.

1:51:18

Activate Windows

Slide 60 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Notes Comments

11:58 AM 8/26/2023 ENG +27. mouham...

Mouham...

Mostafa...

2:08:42

E esraam205 M motazm...

E esraa.ma... A ahmedn...

A ali.abdull... A ayashei...

A Akmal.el... A abdelrah...

L Lec44 HA Hossam ...

S Salama.c... A abdelrah...

A alzahraa... B bassama...

M M Mostafa... MM Mouham...

10 30 20 40 50 60 70 80 90 100

Lec44

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Abdelwahed Ashraf AA

Fact Table Recap:

- What is the fact table?
 - It is the foundation of the data warehouse.
 - It consists of facts and measurements of a particular business side and processes ex: daily revenue for a product.
 - It is the target of queries in most of DWH analysis and reports.
 - It contains measurements/facts and foreign keys to dimensions table.
 - It located at the center of the schema and surrounded by dimension tables.

1:51:41 2:08:19

Slide 60 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11:59 AM 8/26/2023 ENG +27. mouham...

Lec44

E esraam205 M motazm... E esraa.ma... A ahmedn... A ali.abdull... A ayashei... A Akmal.el... A abdelrah... L HA Hossam ... S A Salama.c... A abdelrah... A B alzahraa... A bassama... M MM Mostafa... M Mohamed...

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Abdelwahed Ashraf AA

Fact Granularity

- The grain is the definition of what a single row in the fact table will represent or contains.
- The grain describes the physical event which needs to be measured.
- Grain controls the dimensions which are available in fact.
- Grain represents the level of information we need to represent. It is not always time; it could be the physical business measurement level.
- Design from the lowest possible grain.

Click to add notes.

1:51:51 2:08:09

Slide 63 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11 ENG 8/26/2023 +27... mouham...

E esraam205 M motazm... E esraa.ma... A ahmedn... A ali.abdull... A ayashei... A Akmal.el... A abdelrah... L Lec44 HA Hossam ... S Salama.c... A abdelrah... A alzahraa... B bassama... M Mostafa... MM Mohamed... lec44

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Abdelwahed Ashraf AA Share

Fact Granularity

- The grain is the definition of what a single row in the fact table will represent or contains.
- The grain describes the physical event which needs to be measured.
- Grain controls the dimensions which are available in fact.
- Grain represents the level of information we need to represent. It is not always time; it could be the physical business measurement level.
- Design from the lowest possible grain.

1:54:23 63 20:537

Slide 63 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11 ENG 8/26/2023 +26. mouham...

Lec44 Lec44

E esraam205 M motazm... E A esraa.ma... ahmedn... A A ali.abdull... ayashei... A A Akmal.el... abdelrah... L HA Lec44 Hossam ... S A Salama.c... abdelrah... A B alzahraa... bassama... M MM mohame... Mohamed...

DWH Lecture - Day02.pptx - PowerPoint

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Abdelwahed Ashraf AA

Fact Tables Types

- There are three types of fact tables:
 - Transaction.
 - Periodic snapshot.
 - Accumulated Snapshot.

1:54:52 2:05:08

Slide 65 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11 ENG 8/26/2023 +26. mouham...

Lec44

58
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E esraam205 M motazm...
E esraa.ma... A ahmedn...
A ali.abdull... A ayashei...
A Akmal.el... A abdelrah...
L Lec44 HA Hossam ...
S Salama.c... A abdelrah...
A alzahraa... B bassama...
M Mostafa... MM Mohamed...

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Abdelwahed Ashraf AA

Fact Tables Types

- There are three types of fact tables:
 - Transaction.
 - Periodic snapshot.
 - Accumulated Snapshot.

1:54:52 2:05:08

Slide 65 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11 ENG 8/26/2023 +26. mouham...

Lec44

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E esraam205 M motazm...
E esraa.ma... A ahmedn...
A ali.abdull... A ayashei...
A Akmal.el... A abdelrah...
L Lec44 HA Hossam ...
S Salama.c... A abdelrah...
A alzahraa... B bassama...
M Mostafa... MM Mohamed...

DWH Lecture - Day02.pptx - PowerPoint

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Abdelwahed Ashraf AA

Fact Tables Types

- There are three types of fact tables:
 - Transaction.
 - Periodic snapshot.
 - Accumulated Snapshot.

1:54:57 2:05:03

Slide 65 of 105 English (United States)

DWH_Day02-20230826_091726-Meeting Recording

Activate Windows Go to Settings to activate Windows 11 ENG 8/26/2023 +26. mouham...

Lec44

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E esraam205 M motazm...
E esraa.ma... A ahmedn...
A ali.abdull... A ayashei...
A Akmal.el... A abdelrah...
L Lec44 HA Hossam ...
S Salama.c... A abdelrah...
A alzahraa... B bassama...
M Mostafa... MM Mohamed...

DWH Lecture - Day02.pptx - PowerPoint

Abdelwahed Ashraf AA

File Home Insert Design Transitions Animations Slide Show Review Recording Help Storyboarding Share

Fact Tables Types

- There are three types of fact tables:
 - Transaction.
 - Periodic snapshot.
 - Accumulated Snapshot.

58 59 60 61 62 63 64 65 66 67 68 69

2:15:43 1:44:17

Activate Windows

Slide 65 of 103 English (United States)

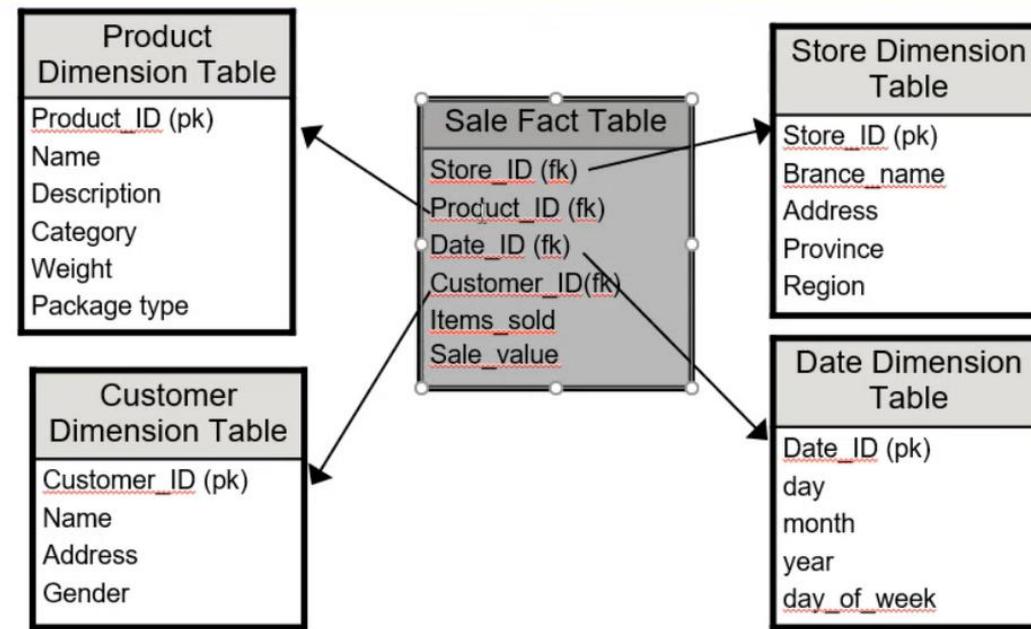
DWH_Day02-20230826_091726-Meeting Recording

Lec44

HA Hossam ... M motazm... E esraa.ma... A ayashei... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghir M mohame... I Ibrahim... رف

11 Go to Settings to activate Windows. 8/26/2023 ENG +24 abdelrah...

Connecting Fact and Dimension Tables(Star Schema)



Media Player

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Search

Abdelwahed Ashraf

- 56
- 57
- 58
- 59
- 60
- 61
- 62
- 63
- 64
- 65
- 66
- 67

Click to add notes

2:16:22 de 1:43:38

Type here to search DWH_Day02-20230826_091726-Meeting Recording Lec44



32°C صافي غالباً

Activate Windows

Go to Settings & activate Windows +25

10:33 PM 7/27/2024

HA Hossam ... M motazm...

E esraa.ma... A ayasheai...

A alzahraa... S Salama.c...

A Akmat.el... M melwake...

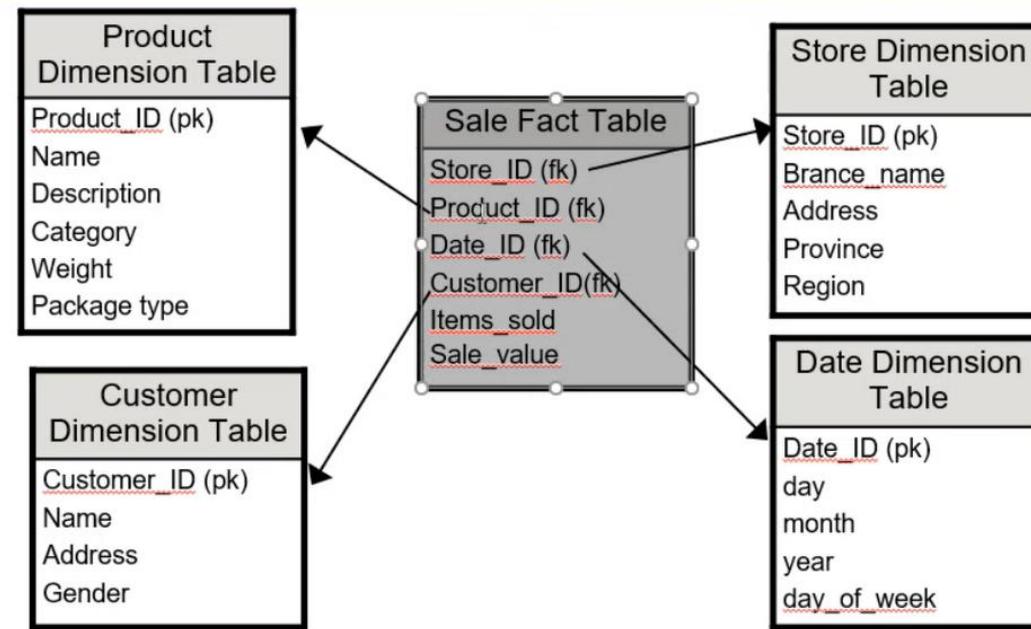
L Lec44 A ali.abdull...

MM Mohame... H hhazema...

A a.alsaghiir M mohame...

I Ibrahim... رجاح ع

Connecting Fact and Dimension Tables(Star Schema)



Fact Tables Types

- There are three types of fact tables:
 - Transaction.
 - Periodic snapshot.
 - Accumulated Snapshot.

Media Player

DWH Lecture - Day02.pptx - PowerPoint

File Home Insert Design Transitions Animations Slide Show Review Recording Help Storyboarding

Abdelwahed Ashraf AA

Share

HA Hossam ... M motazm...

E esraa.ma... A ayasheai...

A alzahraa... S Salama.c...

A Akmat.el... M melwake...

L Lec44 A ali.abdull...

MM Mohame... H hhazema...

A a.alsaghiir M mohame...

I Ibrahim... رف... ع... رحاب

Click to add notes

2:16:58 de 1:43:02



DWH_Day02-20230826_091726-Meeting Recording

Lec44

Activate Windows

Go to Settings & activate Windows

+26

...



صافي غالباً 32°C

10:34 PM
ENG
7/27/2024

Media Player

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

Clipboard Font Alignment Number Styles Cells Editing

A1 Transaction_id

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_id	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales
Periodic Snapshot Fact Table
Accumulating Fact Table
Transaction_Fact_Table
OLTP
Natural
Lec44
Mohamed
a.alsaghiir
Ibrahim....
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Lec44

HA Hossam... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwak... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir M mohame... I Ibrahim.... رجب ع... 4 +26 11:34 AM 8/26/2023

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Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

Clipboard Font Alignment Number Styles Cells Editing

A1 Transaction_id

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_id	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales
Periodic Snapshot Fact Table
Accumulating Fact Table
Transaction_Fact_Table
OLTP
Natural
Lec44
DWH_Day02-20230826_091726-Meeting Recording
Lec44

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HA Hossam ... M motazm...
E esraa.ma... A ayasheai...
A alzahraa... S Salama.c...
A Akmal.el... M melwake...
L Lec44 A ali.abdull...
MM Mohame... H hhazema...
A a.alsaghiir M mohame...
I Ibrahim.... رجب ع... رف

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Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Power Pivot Team

Font Alignment Number Styles Cells Editing

A5 103

Transaction_Fact_Table

Transaction_id	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales
101	1	1234	2000-01-03	34	3	20	60
102	1	1234	2000-01-03	70	5	31	155
103	1	1234	2000-01-03	3	2	22	44
104	1	2323	2000-01-03	5	2	17	34
105	1	2323	2000-01-03	3	1	22	22
106	1	2323	2000-01-03	70	4	30	120

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

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DWH_Day02-20230826_091726-Meeting Recording Lec44

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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwake... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwake... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع...

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Examples.xlsx - Excel

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Font Alignment Number Styles Cells Editing

A5 : 104

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

Periodic Snapshot Fact Table | Accumulating Fact Table | Transaction_Fact_Table | OLTP | Natural ... | + :

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Lec44

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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwak... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwak... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع...

Transaction

- Fact grain set at a single transaction.
- It has one row per transaction.
- For each transaction, we add a new single record.
- The transaction fact table is known to grow very fast as the number of transactions increases.

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A alzahraa... S Salama.c...
A Akmat.el... M melwake...
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A a.alsaghiir M mohame...
I Ibrahim... رف... رحاب ع

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Lec44



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Transaction

- Fact grain set at a single transaction () .
- It has one row per transaction.
- For each transaction, we add a new single record.
- The transaction fact table is known to grow very fast as the number of transactions increases.

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A alzahraa... S Salama.c...
A Akmat.el... M melwake...
L Lec44 A ali.abdull...
MM Mohame... H hhazema...
A a.alsaghiir M mohame...
I Ibrahim... رف... ع... رحاب

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Lec44

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Transaction

- Fact grain set at a single transaction (OLTP).
- It has one row per transaction.
- For each transaction, we add a new single record.
- The transaction fact table is known to grow very fast as the number of transactions increases.

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Font Alignment Number Styles Cells Editing

A5 : 104

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

Periodic Snapshot Fact Table

Accumulating Fact Table

Transaction_Fact_Table

OLTP

Nature ...

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A4 102

Transaction_Fact_Table

Transaction_id	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales
101	1	1234	2000-01-03	34	3	20	60
102	1	1234	2000-01-03	70	5	31	155
103	1	1234	2000-01-03	3	2	22	44
104	1	2323	2000-01-03	5	2	17	34
105	1	2323	2000-01-03	3	1	22	22
106	1	2323	2000-01-03	70	4	30	120

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwake... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع... صافي غالباً ENG 11:37 AM 8/26/2023

Fact Table Types: Transaction Example

Transaction_Fact_Table

Transaction_id	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales
101	1	1234	2000-01-03	34	3	20	60
102	1	1234	2000-01-03	70	5	31	155
103	1	1234	2000-01-03	3	2	22	44
104	1	2323	2000-01-03	5	2	17	34
105	1	2323	2000-01-03	3	1	22	22
106	1	2323	2000-01-03	70	4	30	120

On Excel Sheet

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HA
Hossam ...



M
motazm...



E
esraa.ma...
ayasheai...



A
alzahraa...
Salama.c...



A
Akmat.el...
melwake...



L
Lec44
ali.abdull...



MM
Mohame...
hhazema...



H
hhazema...



A
a.alsaghiir
mohame...



I
Ibrahim....
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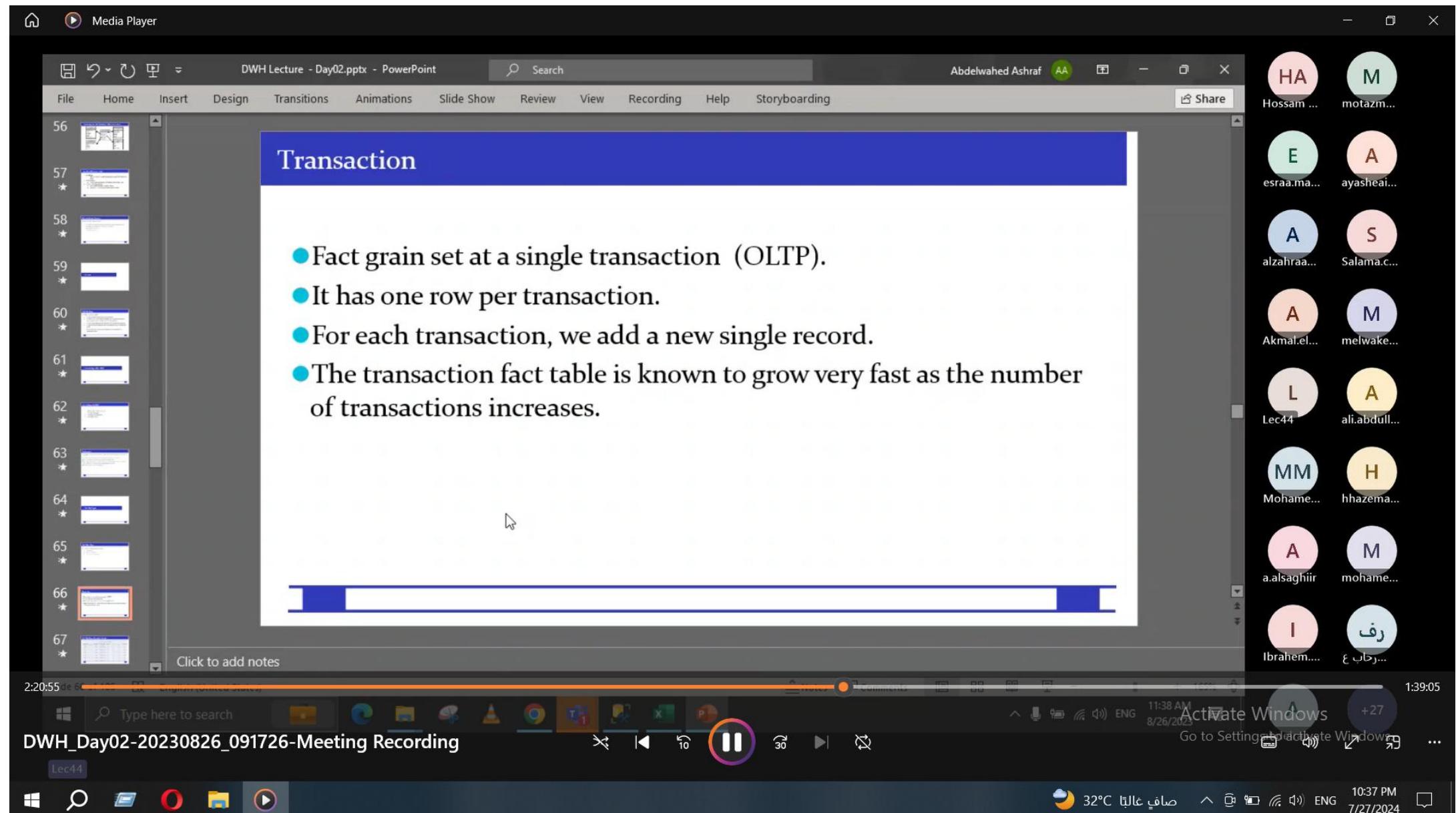
DWH_Day02-20230826_091726-Meeting Recording

Lec44



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Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP.I
- It must be from lower granularity to higher granularity hourly, daily, monthly, and quarterly, then yearly.

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Lec44



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Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP.I
- It must be from lower granularity to higher granularity hourly, daily, monthly, and quarterly, then yearly.

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A alzahraa... S Salama.c...
A Akmat.el... M melwake...
L Lec44 A ali.abdull...
MM Mohame... H hhazema...
A a.alsaghiir M mohame...
I Ibrahim... رف... ع... رحاب

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Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

Font Alignment Number Styles Cells Editing

A6 105

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
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6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales
Periodic Snapshot Fact Table
Accumulating Fact Table
Transaction_Fact_Table
OLTP
Natural
Lec44
Ibrahim...
DWH_Day02-20230826_091726-Meeting Recording
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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwak... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwak... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir mohame... I Ibrahim... رجب ع...

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Examples.xlsx - Excel

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Font Alignment Number Styles Cells Editing

A2 101

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			
8	107	11	1	4422	2000-01-04	34	8	20	160			
9	108	11	1	4422	2000-01-04	70	5	31	155			
10	109	11	1	4422	2000-01-04	3	4	22	88			
11	110	12	1	3333	2000-01-04	5	5	17	85			
12	111	12	1	3333	2000-01-04	3	13	22	286			
13	112	12	1	3333	2000-01-04	70	9	30	270			

Periodic Snapshot Fact Table | Accumulating Fact Table | Transaction_Fact_Table | OLTP | Natural ... | + | 2:22:35 ready | 1:37:25

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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 A ali.abdull... MM Mohame... H hhazema... A a.alsaghiir M mohame... I Ibrahim.... رف... صافي غالباً ENG 32°C ENG 10:38 PM 7/27/2024

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Examples.xlsx - Excel

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Clipboard Font Alignment Number Styles Cells Editing

J4 OLTP

	A	B	C	D	E	F	G	H	I	J	K	L
1	Transaction_ID	Order_FK	store_FK	Customer_FK	Transaction_Date_FK	Product_FK	QTY	price	total_sales			
2	101	6	1	1234	2000-01-03	34	3	20	60			
3	102	6	1	1234	2000-01-03	70	5	31	155			
4	103	6	1	1234	2000-01-03	3	2	22	44	OLTP		
5	104	9	1	2323	2000-01-03	5	2	17	34			
6	105	9	1	2323	2000-01-03	3	1	22	22			
7	106	9	1	2323	2000-01-03	70	4	30	120			

Fact Sales

	Count_Trns	Order_Count	Store_Count	Cus_Count	Periodict_Date	Product_Count	Total_QTY	Total_Sales	DWH
20	6	2	1	2	2000-01-03	4	17	435	
21	6	2	1	2	2000-01-04	4	44	1044	

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L ali.abdull... B bakli.kar... MM Mohame... A amrraga... M mohame... I Ibrahim... M melwake...

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Clipboard Font Alignment Number Styles Cells Editing

A5 : 1/1/2000

Periodic_Fact_Table

Date_FK	Product_FK	Store_FK	Quantity_on_hand
2000-01-01	222	100	20
2000-01-01	444	100	200

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

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Clipboard Font Alignment Number Styles Cells Editing

A5 : 1/1/2000

Periodic_Fact_Table

Date_FK	Product_FK	Store_FK	Quantity_on_hand
2000-01-01	222	100	20
2000-01-02	222	100	30

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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwak... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwak... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP.
- It must be from lower granularity to higher granularity hourly, daily, monthly, and quarterly, then yearly.

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61 ★ 62 ★ 63 ★ 64 ★ 65 ★ 66 ★ 67 ★ 68 ★ 69 ★ 70 ★ 71 ★ 72 ★

Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP.
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HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghier

Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP. I
- It must be from lower granularity to higher granularity hourly, daily, monthly, and quarterly, then yearly.

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Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP. I
- It must be from lower granularity to higher granularity hourly, daily, monthly, and quarterly, then yearly.

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DWH_Day02-20230826_091726-Meeting Recording Lec44

Activate Windows 11:53 AM 8/26/2023 Go to Settings & activate Windows +25

32°C ENG 10:47 PM 7/27/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmat.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Periodic Fact Table

- A periodic fact table contains one row for a group of transactions over a period OLTP.
- It must be from lower granularity to higher granularity hourly, daily, monthly, and quarterly, then yearly.

Media Player

DWH Lecture - Day02.pptx - PowerPoint

Search

Abdelwahed Ashraf

AA

File Home Insert Design Transitions Animations Slide Show Review Recording Help Storyboarding Shape Format

Share



Click to add notes

2:36:15 de 1:23:45

Type here to search

DWH_Day02-20230826_091726-Meeting Recording



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32°C صافي غالباً

ENG 10:47 PM
7/27/2024

Accumulated Snapshot Fact Table

- An accumulating fact table stores one row for the entire process.
- It does not accumulate time it accumulates business process.
- A row in an accumulating snapshot fact table summarizes the measurement events occurring at predictable steps between the beginning and the end of a process
- Accumulating Fact tables are used to show the activity of progress through a well-defined process and are most often used to research the time between milestones.
- These fact tables are updated as the business process unfolds, and each milestone is completed.

The screenshot shows a Microsoft PowerPoint slide titled "Accumulated Snapshot Fact Table". The slide contains a bulleted list of six points explaining what an accumulating fact table is. The list includes statements about storing one row for the entire process, not accumulating time but business process, summarizing events at predictable steps, showing activity of progress through a well-defined process, and being updated as the business process unfolds. The slide has a blue header bar and a blue footer bar. On the right side of the slide, there is a vertical list of student names and initials, each with a colored circle containing a letter (e.g., HA, M, E, A, S, M, L, MA, MM, A, A, E, A). The PowerPoint interface shows the ribbon with various tabs like File, Home, Insert, Design, Transitions, Animations, Slide Show, Review, View, Recording, Help, Storyboarding, and a Share button. The taskbar at the bottom shows the Windows Start button, a search bar, pinned icons for File Explorer, Edge, and File Explorer, and the current date and time (11:54 AM, 8/26/2023). The system tray shows battery level (32°C), signal strength, and language settings (ENG, 7/27/2024).

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Accumulating Fact Table

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null

Fact Row inserted when Lot Received

Fact Row Updated when Lot Inspected

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ...

2:36:49 1:23:11

Type here to search

DWH_Day02-20230826_091726-Meeting Recording Lec44

Activate Windows 11:54 AM 8/26/2023 +25 Go to Settings

32°C ENG 10:48 PM 7/27/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Accumulating Fact Table

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null

Height: 171.75 (229 pixels)

Fact Row Updated when Lot Inspected

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ...

2:37:00 1:23:00

Type here to search

DWH_Day02-20230826_091726-Meeting Recording Lec44

Activate Windows 11:54 AM 8/26/2023 +25 Go to Settings

32°C صافي غالباً ENG 10:48 PM 7/27/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Font: Calibri, 18pt, A⁺, A⁻

Number: General, \$, %, , .00

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Sort & Filter, Find & Select, Clear

Accumulating Fact Table

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null

Fact Row inserted when Lot Received

Fact Row Updated when Lot Inspected

Periodic Snapshot Fact Table

Accumulating Fact Table

Transaction_Fact_Table

OLTP

Natural...

2:37:33 1:22:27

Type here to search

Activate Windows

Go to Settings

32°C 10:56 PM 7/27/2024

DWH_Day02-20230826_091726-Meeting Recording Lec44

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Font: Calibri, 18pt, A¹, A₁

Number: General, \$, %, , .00

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Filter, Find & Select

A4

Accumulating Fact Table

Fact Row inserted when Lot Received							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null

Fact Row Updated when Lot Inspected							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	Null	Null

Periodic Snapshot Fact Table

Accumulating Fact Table

Transaction_Fact_Table

OLTP

Natural...

2:39:52 AM

Activate Windows

11:57 AM 8/26/2023 +26

Go to Settings

32°C صافي غالباً ENG 10:56 PM 7/27/2024

Hossam ... HA

motazm... M

esraa.ma... E

ayasheai... A

alzahraa... A

Salama.c... S

Akmal.el... A

melwake... M

Lec44 L

Mostafa ... MA

Mohame... MM

ahmedn... A

ali.abdull... A

abdullah... A

emanab... E

a.alsaghiir A

DWH_Day02-20230826_091726-Meeting Recording

Lec44

Windows Taskbar

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Font: Calibri, 18pt, A⁺, A⁻

Number: General, \$, %, , .00

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Clear, Sort & Filter, Find & Select

A4

Accumulating Fact Table

Fact Row inserted when Lot Received							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null
Fact Row Updated when Lot Inspected							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	Null	Null

Periodic Snapshot Fact Table

Accumulating Fact Table

Transaction_Fact_Table

OLTP

Natural...

2:40:33 1:19:27

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Activate Windows

Go to Settings

32°C 10:57 PM 7/27/2024

DWH_Day02-20230826_091726-Meeting Recording Lec44

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... M melwake... L Lec44 MA Mostafa ... MM Mohame... A ahmed... A ali.abdull... A abdullah... E emanab... A a.alsaghie... صافي غالباً ENG 7/27/2024

Media Player

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

Font Alignment Number Styles Cells Editing

Clipboard Date Bin placement Key

A B C D E F G H I

6

7 Fact Row Updated when Lot Inspected

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	Null	Null

10

11

12 Fact Row Updated when Lot placed In Bin

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	20130104	+3

13

14

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16

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18

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

2:41:32 1:18:28

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DWH_Day02-20230826_091726-Meeting Recording Lec44

Activate Windows 11:59 AM 8/26/2023 Go to Settings +25

32°C ENG 10:58 PM 7/27/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... رف... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... رف... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Media Player

Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

Font Alignment Number Styles Cells Editing

Clipboard Date Bin placement Key

A B C D E F G H I

6

7 Fact Row Updated when Lot Inspected

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	Null	Null

10

11

12 Fact Row Updated when Lot placed In Bin

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	20130104	+3

13

14

15

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17

18

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

2:41:32 1:18:28

Type here to search

DWH_Day02-20230826_091726-Meeting Recording Lec44

Activate Windows 11:59 AM 8/26/2023 Go to Settings +25

32°C ENG 10:58 PM 7/27/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... رف... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie... HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... رف... L Lec44 MA Mostafa ... MM Mohame... A ahmedn... A ali.abdull... A abdullah... E emanab... A a.alsaghie...

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Font: Calibri 18pt

Number: General

Styles: Conditional Formatting, Format as Table, Cell Styles

Cells: Insert, Delete, Format

Editing: AutoSum, Fill, Sort & Filter, Find & Select

Clipboard: Paste, Font, Alignment, Number, Styles, Cells, Editing

E9: 20130103

Accumulating Fact Table

Fact Row inserted when Lot Received							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null

Fact Row Updated when Lot Inspected							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	Null	Null

Fact Row Updated when Lot placed In Bin							
Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	20130104	3

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ...

2:41:32 1:18:28

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DWH_Day02-20230826_091726-Meeting Recording Lec44

Activate Windows 12:00 PM 8/26/2023 +25 Go to Settings deactivate Windows

32°C صافي غالباً ENG 10:59 PM 7/27/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A رف Akmal.el... L Lec44 MA Mostafa ... MM A Mohamed... ali.abdull... A abdullah... E emanab... A a.alsaghiir

Media Player

Examples.xlsx - Excel

Abdelwahed Ashraf AA

Clipboard

Font

Alignment

Number

Styles

Cells

Editing

1R x 4C : 101

A B C D E F G H I

Fact Row inserted when Lot Received

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	Null	Null	Null	Null

Fact Row Updated when Lot Inspected

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	Null	Null

Fact Row Updated when Lot placed In Bin

Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
101	20130101	1	100	20130103	2	20130104	3

Periodic Snapshot Fact Table

Accumulating Fact Table

Transaction_Fact_Table

OLTP

Natural ...

2:43:47 1:16:13

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Activate Windows

Go to Settings +25

DWH_Day02-20230826_091726-Meeting Recording

Lec44

32°C صافي غالباً ENG 10:59 PM 7/27/2024

HA Hossam ... M motazm...
E esraa.ma... A ayasheai...
A alzahraa... S Salama.c...
A رف Akmal.el... ع رحاب...
L Lec44 MA Mostafa ...
MM Mohame... A ahmedn...
A ali.abdull... A abdullah...
E emanab... A a.alsaghie...
HA Hossam ... M motazm...
E esraa.ma... A ayasheai...
A alzahraa... S Salama.c...
A رف Akmal.el... ع رحاب...
L Lec44 MA Mostafa ...
MM Mohame... A ahmedn...
A ali.abdull... A abdullah...
E emanab... A a.alsaghie...



Periodic Snapshot Fact Table

Accumulating Fact Table

Transaction_Fact_Table

OLTP

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Examples.xlsx - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Team

B13 : Date Received Key

A	B	C	D	E	F	G	H	
4	101	20130101	1	100	Null	Null	Null	
5	Fact Row Updated when Lot Inspected							
8	Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
9	101	20130101	1	100	20130103	2	Null	Null
10								
12	Fact Row Updated when Lot placed In Bin							
13	Lot Receipt Number	Date Received Key	Product Key	Quantity Received	Date Inspected Key	Receipt to Inspected Lag	Date Bin placement Key	Receipt to Bin placement Lag
14	101	20130101	1	100	20130103	2	20130104	3
15								
16								
17								
18								
19								
20								
21								

Periodic Snapshot Fact Table Accumulating Fact Table Transaction_Fact_Table OLTP Natural ... +

2:52:22 1:07:38

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DWH_Day02-20230826_091726-Meeting Recording Lec44

32°C صافي غالباً ENG 12:06 AM 7/28/2024

HA Hossam ... M motazm... E esraa.ma... A ayasheai... A alzahraa... S Salama.c... A Akmal.el... E emanab... L Lec44 MA Mostafa ... MM ahmed... A ali.abdull... A abdullah... E esaam205 A a.alsaghier