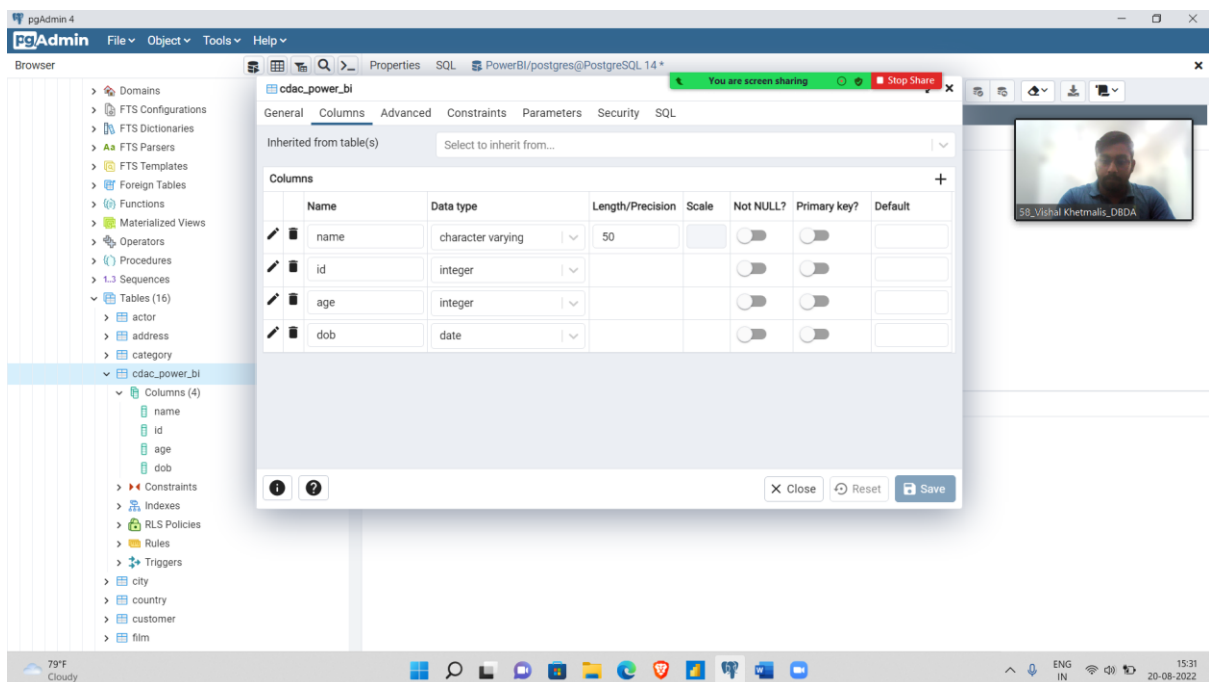
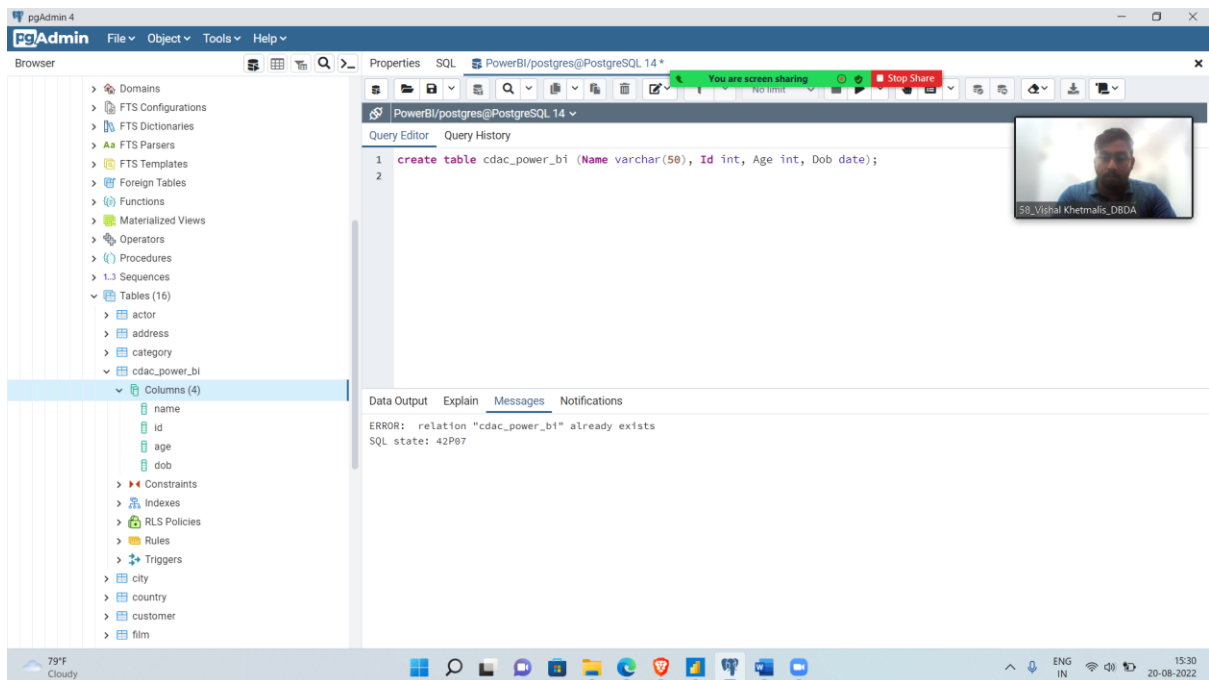


220340325058

## Vishal Khetmalis

Q1. Create a sample table in postgres/mysql with following columns (15 Marks)

Table Name : cdac\_power\_bi Column Name - varchar Id- integer Age- integer Dob - date Insert 5 dummy rows into it and then connect to superset and populate 1. Table Chart 2. Card chart showing max age



pgAdmin 4

File Object Tools Help

Browser

- Domains
- FTS Configurations
- FTS Dictionaries
- FTS Parsers
- FTS Templates
- Foreign Tables
- Functions
- Materialized Views
- Operators
- Procedures
- Sequences
- Tables (16)
  - actor
  - address
  - category
  - cdac\_power\_bi
    - Columns (4)
      - name
      - id
      - age
      - dob
    - Constraints
    - Indexes
    - RLS Policies
    - Rules
    - Triggers
  - city
  - country
  - customer
  - film

Properties SQL PowerBI/postgres@PostgreSQL 14 \*

Query Editor Query History

```
1 insert into cdac_power_bi (Name, Id, Age, Dob) values ('Vishal', 58, 27, '02/02/1996'), ('Nilesh', 43, 24, '12/10/1997'), ('Gar
```

2

Data Output Explain Messages Notifications

INSERT 0 5

Query returned successfully in 117 msec.

76°F Cloudy

You are screen sharing Stop Share

50\_Vishal Khetmalis\_OBDA

dbda\_exam - Power BI Desktop

File Home Insert Modeling View Help

Clipboard

Get data Excel Data SQL Enter data Datasource Recent sources Transform Refresh data Queries New visual Text box More visuals Insert New Quick measure measure Calculations Sensitivity Publish

Visualizations Fields

Build visual

Filters

Product\_table

- avg
- City
- Customer name
- Delivery Charges
- Item Type
- Path
- Price
- Quantity
- Sells Date
  - Title
  - total\_sales
  - total\_sales\_2022
  - Vendors

Values

Add data fields here

Drill through

Cross-report

Keep all filters

Add drill-through fields here

PostgreSQL database

Server localhost

Database PowerBI

Data Connectivity mode

- Import
- DirectQuery

Advanced options

OK Cancel

Page 14 of 14

76°F Cloudy

You are screen sharing Stop Share

50\_Vishal Khetmalis\_OBDA

dbda\_exam - Power BI Desktop

You are screen sharing

Stop Share

Sign in

File Home Insert Modeling View Help

Clipboard

Get data

Excel workbook

Data hub

Server

Navigator

Display Options

- localhost: PowerBI [23]
- public.actor\_info
- public.customer\_list
- public.film\_list
- public.nicer\_but\_slower\_film\_list
- public.sales\_by\_film\_category
- public.sales\_by\_store
- public.staff\_list
- public.actor
- public.address
- public.category
- public.cdac\_power\_bi**
- public.city
- public.country
- public.customer
- public.film
- public.film\_actor
- public.film\_category
- public.inventory
- public.language

Select Related Tables

Load Transform Data Cancel

public.cdac\_power\_bi

name	id	age	dob
Vishal	58	27	02-02-1996
Nilesh	43	24	12-10-1997
Ganesh	13	26	14-07-1994
Yuvraj	3	22	10-03-1995
Pratik	1	25	10-10-1996

Visualizations

Fields

Product\_table

- avg
- City
- Customer name
- Delivery Charges
- Item Type
- Path
- Price
- Quantity
- Sells Date
- Title
- total\_sales
- total\_sales\_2022
- Vendors

Page 14 of 14

76°F Cloudy

ENG IN

16:01

20-08-2022

dbda\_exam - Power BI Desktop

You are screen sharing

Stop Share

Sign in

File Home Insert Modeling View Help Format Data / Drill

Clipboard

Get data

Excel workbook

Data hub

Server

Data

Enter data

Dataverse

Recent sources

Transform Refresh data

Queries

New visual

Text box

More visuals

Insert

New Quick measure measure

Calculations

Sensitivity

Share

Publish

Visualizations

Fields

Product\_table

- public.cdac\_power\_bi
- age
- dob
- id
- name

Filters

Build visual

Columns

id

name

age

dob

Year

Drill through

Cross-report

Keep all filters

Add drill-through fields here

Sum of 'public.cdac\_power\_bi'[age]

27

Max of age

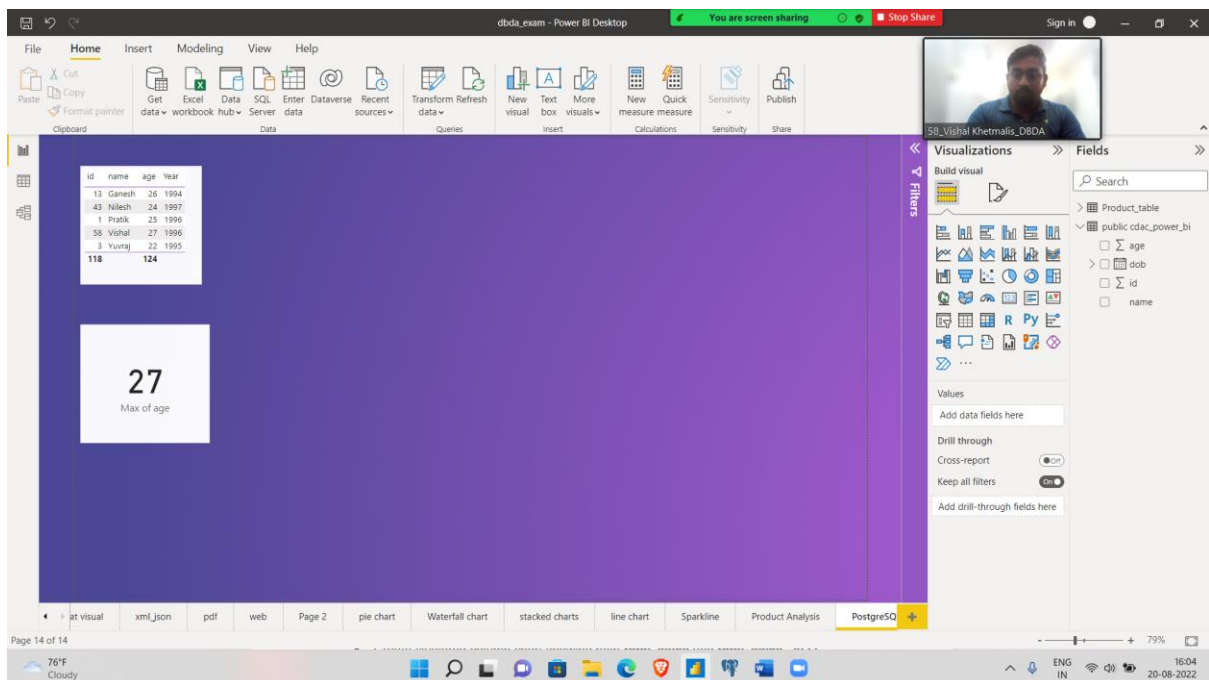
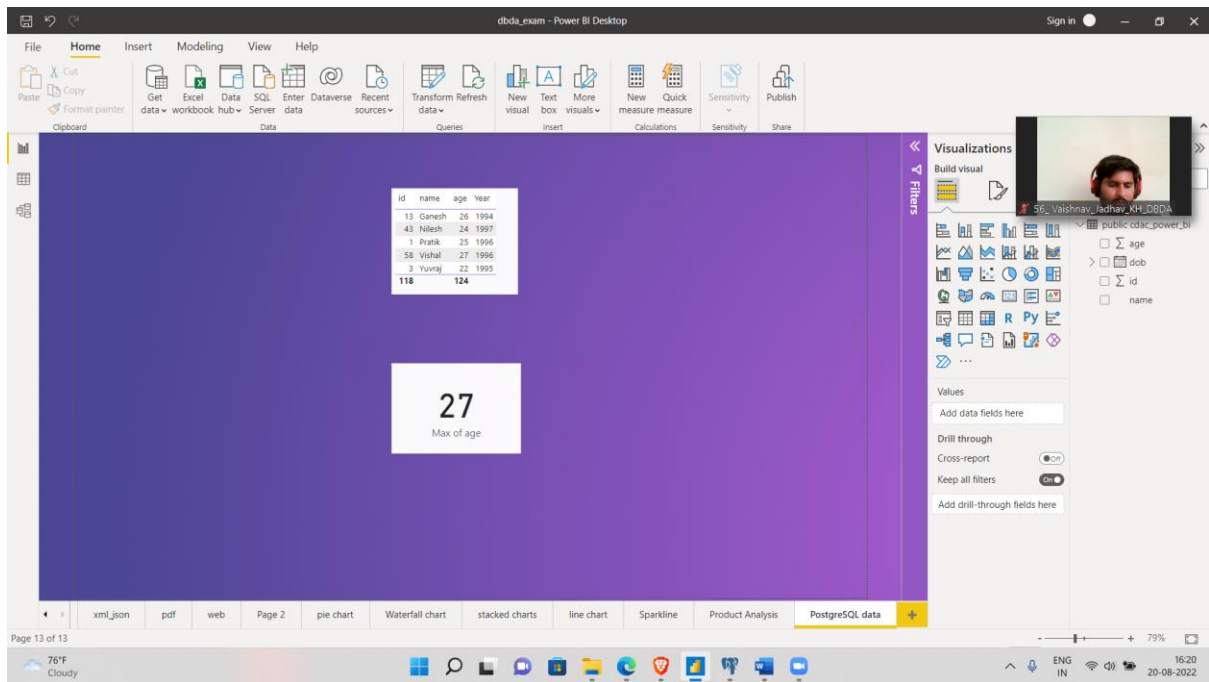
Page 14 of 14

76°F Cloudy

ENG IN

16:05

20-08-2022



Q2.On product\_table data set do the following (25 Marks)

- Create table chart with title , vendor,customer name,quantity,price,city
- Add new calculated column naming total\_sales which is derived from quantity \* price
- Add new measure naming max\_price to get max of price column and then display every vendor max price in table chart
- Create pie chart showing the value and percentage of quantity by vendors
- Create one more column naming total\_sales\_2022 which is derived from quantity \* price \* 1.16
- Create clustered column chart showing both total\_sales and total\_sales\_2022
- Create a slicer chart of price
- Calculate avg sales and show in tile
- Create gauge chart with o value as total\_sales o Maximum value as max of total\_sales\_2022 o Target Value as average of total\_sales

Power BI Desktop interface showing a data table and a visualization pane.

**Data Table:**

Title	Vendors	Customer name	Price	City
Desktop	Apple	Jeff	35000	Columbus
Desktop	Apple	Jeff	41000	Texas
Desktop	Dell	Mark	28000	Washington
Desktop	Dell	Robert	25000	California
Desktop	HP	John	29000	NewYork
Desktop	Lenovo	John	35000	NewYork
Keyboard	HP	Paul	2000	Chicago
Keyboard	Lenovo	Mark	2700	Washington
Laptop	HP	Paul	35000	Chicago
Laptop	Lenovo	Mark	42000	Texas
Laptop	Lenovo	Paul	35000	Chicago
Mouse	Apple	Mark	5000	NewYork
Mouse	Dell	Donald	4500	Columbus
<b>Total</b>			<b>653550</b>	

**Visualizations Pane:**

- Build visual:** Selects a visualization type (e.g., Table).
- Columns:** Lists fields to be displayed in the visualization (e.g., Title, Vendors, Customer name, Price, City).
- Drill through:** Options for cross-report and keep all filters.

Power BI Desktop interface showing a data table and a visualization pane with a context menu open.

**Data Table:**

Title	Vendors	Customer name	Price	City
Desktop	Apple	Jeff	35000	Columbus
Desktop	Apple	Jeff	41000	Texas
Desktop	Dell	Mark	28000	Washington
Desktop	Dell	Robert	25000	California
Desktop	HP	John	29000	NewYork
Desktop	Lenovo	John	35000	NewYork
Keyboard	HP	Paul	2000	Chicago
Keyboard	Lenovo	Mark	2700	Washington
Laptop	HP	Paul	35000	Chicago
Laptop	Lenovo	Mark	42000	Texas
Laptop	Lenovo	Paul	35000	Chicago
Mouse	Apple	Mark	5000	NewYork
Mouse	Dell	Donald	4500	Columbus
<b>Total</b>			<b>653550</b>	

**Visualizations Pane:**

- Build visual:** Selects a visualization type (e.g., Table).
- Columns:** Lists fields to be displayed in the visualization (e.g., Vendors, Max of Price).
- Drill through:** Options for cross-report and keep all filters.

**Context Menu (Max of Price):**

- Move
- Add a sparkline
- Conditional formatting
- Remove conditional formatting
- Don't summarize
- Sum
- Average
- Minimum
- Maximum
- Count (Distinct)
- Count
- Standard deviation
- Variance
- Median
- Show value as
- New quick measure



dbda\_exam - Power BI Desktop

File Home Insert Modeling View Help Format Data / Drill Table tools Column tools

Name: total\_sales Format: Whole number Summarization: Sum Data type: Whole number Data category: Uncategorized

Structure: Formatting Properties

Sort by column: Sort Data groups: Manage New Relationships Calculations

You are screen sharing Stop Share

Visualizations Fields

Build visual

Filters

Columns: Title Vendors Customer name Price City total\_sales

Drill through Cross-report Keep all filters

Add drill-through fields here

aggregates format visual xml\_json pdf web Page 2 pie chart Waterfall chart stacked charts line chart Sparkline Page 3

Page 13 of 13

82°F Cloudy

ENG IN 14:50 20-08-2022

Title	Vendors	Customer name	Price	City	total_sales
Desktop	Apple	Jeff	35000	Columbus	210000
Desktop	Apple	Jeff	41000	Texas	369000
Desktop	Dell	Mark	28000	Washington	280000
Desktop	Dell	Robert	25000	California	375000
Desktop	HP	John	29000	NewYork	319000
Desktop	Lenovo	John	35000	NewYork	420000
Keyboard	HP	Paul	2000	Chicago	30000
Keyboard	Lenovo	Mark	2700	Washington	48600
Laptop	HP	Paul	35000	Chicago	525000
Laptop	Lenovo	Mark	42000	Texas	966000
Laptop	Lenovo	Paul	35000	Chicago	420000
Mouse	Apple	Mark	5000	NewYork	25000
Mouse	Dell	Donald	4500	Columbus	67500
<b>Total</b>					<b>653550</b>

Vendors	Max of Price
Apple	61000
Dell	28000
HP	35000
Lenovo	42000
Microsoft	40000
Parasonic	35000
<b>Total</b>	<b>61000</b>

dbda\_exam - Power BI Desktop

File Home Insert Modeling View Help Format Data / Drill Table tools Column tools

Name: total\_sales\_2022 Format: General Summarization: Sum Data type: Decimal number Data category: Uncategorized

Structure: Formatting Properties

Sort by column: Sort Data groups: Manage New Relationships Calculations

You are screen sharing Stop Share

Visualizations Fields

Build visual

Filters

Columns: Title Vendors Customer name Price City total\_sales total\_sales\_2022

Drill through Cross-report Keep all filters

Add drill-through fields here

aggregates format visual xml\_json pdf web Page 2 pie chart Waterfall chart stacked charts line chart Sparkline Page 3

Page 13 of 13

82°F Cloudy

ENG IN 14:53 20-08-2022

Title	Vendors	Customer name	Price	City	total_sales	total_sales_2022
Desktop	Apple	Jeff	35000	Columbus	210000	2,43,600.00
Desktop	Apple	Jeff	41000	Texas	369000	4,28,040.00
Desktop	Dell	Mark	28000	Washington	280000	3,24,800.00
Desktop	Dell	Robert	25000	California	375000	4,35,000.00
Desktop	HP	John	29000	NewYork	319000	3,70,040.00
Desktop	Lenovo	John	35000	NewYork	420000	4,87,200.00
Keyboard	HP	Paul	2000	Chicago	30000	34,800.00
Keyboard	Lenovo	Mark	2700	Washington	48600	56,376.00
Laptop	HP	Paul	35000	Chicago	525000	6,09,000.00
Laptop	Lenovo	Mark	42000	Texas	966000	11,20,560.00
Laptop	Lenovo	Paul	35000	Chicago	420000	4,87,200.00
Mouse	Apple	Mark	5000	NewYork	25000	29,000.00
Mouse	Dell	Donald	4500	Columbus	67500	78,300.00
<b>Total</b>					<b>653550</b>	<b>1,02,07,652.00</b>

Vendors	Max of Price
Apple	61000
Dell	28000
HP	35000
Lenovo	42000
Microsoft	40000
Parasonic	35000
<b>Total</b>	<b>61000</b>

