

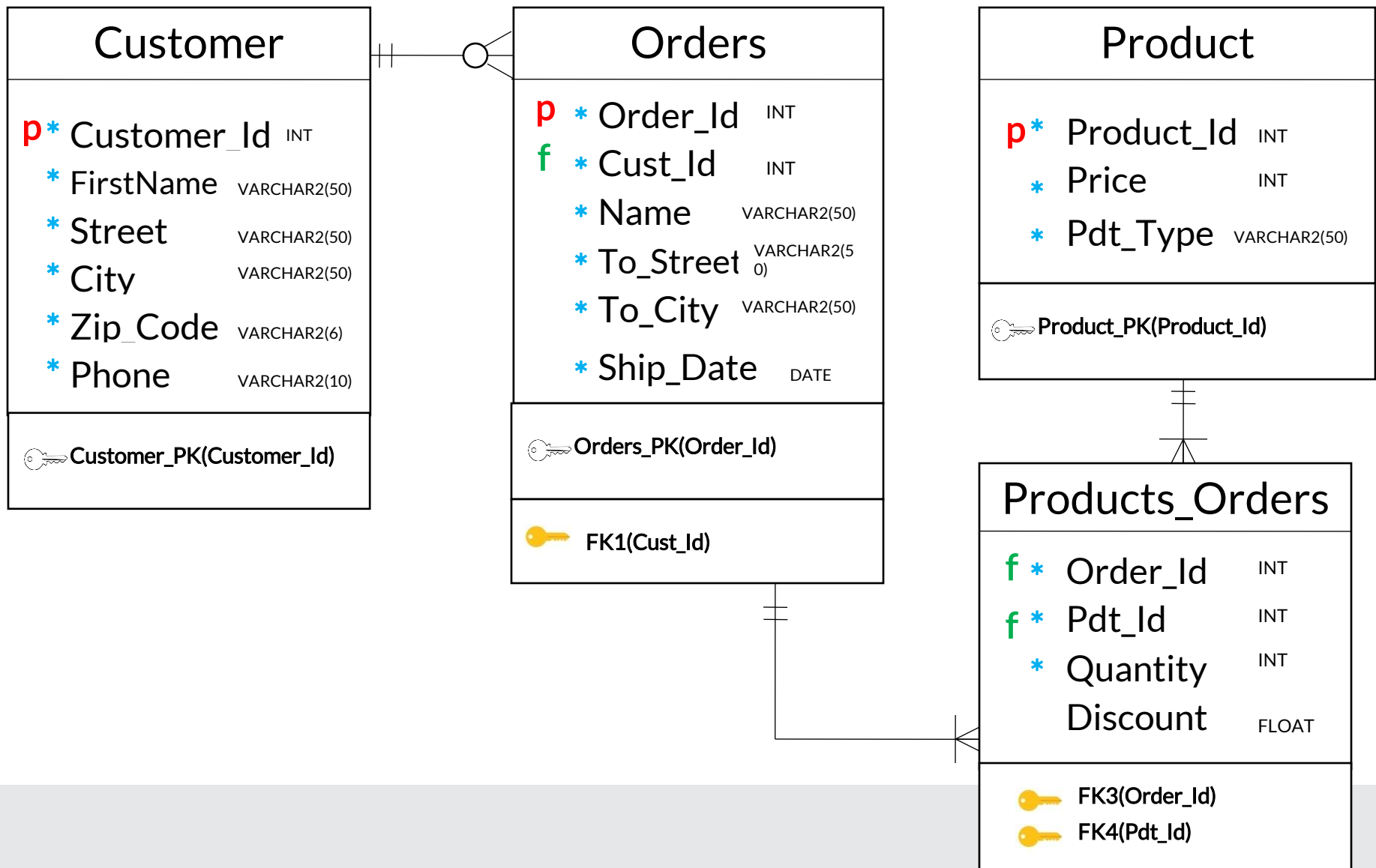


Views

In this session, you will learn:

- Introduction to Database View
- How Oracle implements Views
- How to create a View
- How to update a view
- How to manage views





- A database view is a virtual table or logical table which is defined as a SQL Select query.

Why to use Views?

- ✓ allows you to simplify complex queries
- ✓ helps limit data access to specific users
- ✓ provides extra security layer
- ✓ enables computed columns
- ✓ enables backward compatibility

How Oracle implements Views?

- Creates a virtual table based on the view definition statement and executes the incoming query on this virtual table.


Creating a View - Example

Syntax

```
CREATE VIEW [view_name]
AS
[SELECT statement]
```

Select * from CustomersInChennai

Customer



Customer_Id	FirstName	Street	City	Zip_Code	Phone
100	ABC	Central	Chennai	641088	9852754812
101	XYZ	Velacherry	Chennai	641088	5872526262
103	FEG	Lakeview	Ooty	465424	4541565596
104	ABC	Lakeview	Ooty	465424	8482927482

Customer_Id	FirstName	Phone
100	ABC	9852754812
101	XYZ	5872526262

Example

```
CREATE VIEW CustomersInChennai
AS
SELECT Customer_Id,FirstName,Phone
FROM Customer WHERE City = 'Chennai';
```

→ View Created

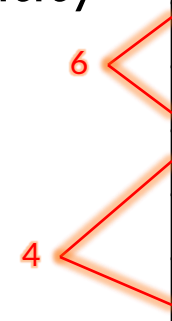
Creating a View with GROUP BY and ORDER BY

Example

```
CREATE VIEW salesperorder  
AS  
SELECT Order_Id, SUM(Quantity) total_quantity  
FROM Product_Orders  
GROUP by Order_Id  
ORDER BY total_quantity DESC;
```

Product_Orders

Order_Id	Pdt_Id	Quantity	Discount
200	300	1	0
200	301	5	0.1
201	300	1	0.2
202	302	7	0
201	301	3	0.3



Select * from salesperorder



Order_Id	Total_quantity
202	7
200	6
201	4

Creating a View using Joins

Product

Product_Id	Pdt_Name	Price	Pdt_Type
300	Fan	5000	Electronics
301	Rhymes	1000	Books
302	Shirt	2000	Men Apparel

Product_Orders

Order_Id	Pdt_Id	Quantity	Discount
200	300	1	0
200	301	5	0.1
201	301	2	0.2

Example

```
CREATE VIEW Product_Info  
AS
```

```
SELECT Product_Id, Pdt_Name, Sum(Quantity) Total_Quantity  
FROM Product
```

```
INNER JOIN Product_Orders
```

```
ON Product_Id = Pdt_Id
```

```
GROUP BY Product_Id
```

Select * from Product_Info



View Created

Product_Id	Pdt_Name	Total_Quantity
300	Fan	1
301	Rhymes	7

Updating a View

Syntax

```
CREATE OR REPLACE [view_name]  
AS  
[SELECT statement]
```

Select * from CustomersInChennai



Customer_Id	FirstName	Phone
100	ABC	9997821919
101	XYZ	5872526262

Example

```
CREATE OR REPLACE VIEW CustomersInChennai  
AS  
SELECT Customer_Id,FirstName,Street,Phone FROM Customer  
WHERE City = 'Chennai';
```

Select * from CustomersInChennai



Customer_Id	FirstNa me	Street	Phone
100	ABC	Central	9997821919
101	XYZ	Velacherry	5872526262

Syntax

```
DROP VIEW view_name
```

Example

```
DROP VIEW CustomersInChennai
```

THANKS

