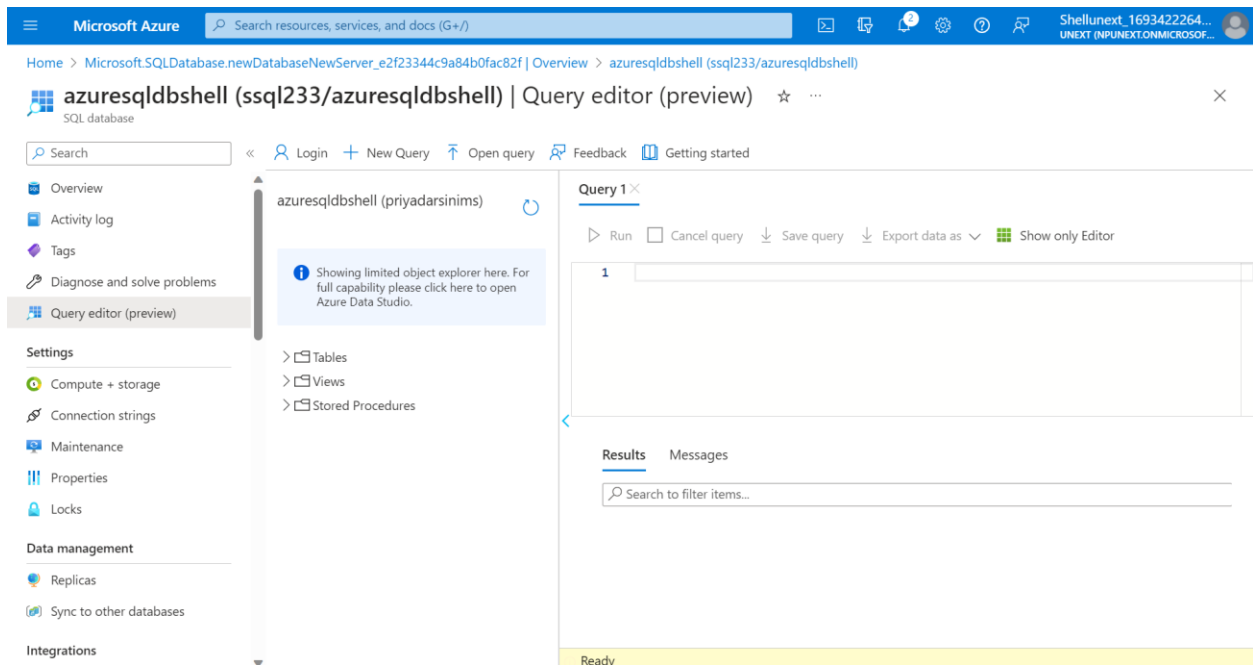# AZURE SQL

Hands-on and activity based on following commands:

- ➢ Inner join, Left outer join, Right outer join
- ➢ Union
- ➢ Union all
- ➢ Intersect
- ➢ Subqueries
- ➢ Views
- ➢ Stored procedures
- ➢ Functions
- ➢ Indexes
- ➢ Heaps
- ➢ Clustered index, Non-clustered index
- ➢ Column store index

SQL Worksheet

Clear Find Actions Save Run

```
1  CREATE TABLE Customers (
2    CustomerID INT PRIMARY KEY,
3    FirstName VARCHAR(50),
4    LastName VARCHAR(50),
5    Email VARCHAR(100)
6  );
7  CREATE TABLE Orders (
8    OrderID INT PRIMARY KEY,
9    CustomerID INT,
10   OrderDate DATE,
11   TotalAmount DECIMAL(10, 2),
12   FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
13 );
```

```
Table created.

Table created.
```

SQL Worksheet

Clear Find Actions Save Run

```
1  desc orders;
2  INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount) VALUES (1, 1, '01-Aug-2023', 50.00);
3  INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount) VALUES (2, 2, '15-Aug-2023', 75.00);
4
5
```

Download CSV

```
4 rows selected.

1 row(s) inserted.

1 row(s) inserted.
```

SQL Worksheet   ⬭ Clear   ⚡ Find   Actions ⌄   💾 Save   Run ▶

```
1   SELECT Customers.*, Orders.*
2   FROM Customers
3   INNER JOIN Orders ON Customers.CustomerID = Orders.CustomerID;
4
5
6   |
```

CUSTOMERID	FIRSTNAME	LASTNAME	EMAIL	ORDERID	CUSTOMERID	ORDERDATE	TOTALAMOUNT
1	John	Doe	john.doe@example.com	1	1	01-AUG-23	50
2	Jane	Smith	jane.smith@example.com	2	2	15-AUG-23	75

SQL Worksheet   ⬭ Clear   ⚡ Find   Actions ⌄   💾 Save   Run ▶

```
1   SELECT CustomerID FROM Customers
2   UNION
3   SELECT CustomerID FROM Orders;
4
5
6
7
```

CUSTOMERID
1
2

SQL Worksheet

Clear · Find · Actions · Save · Run

```sql
1  SELECT CustomerID FROM Customers
2  UNION ALL
3  SELECT CustomerID FROM Orders;
4
5
6
7
8
```

CUSTOMERID
1
2

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SQL Worksheet

Clear · Find · Actions · Save · Run

```sql
1  SELECT CustomerID FROM Customers
2  INTERSECT
3  SELECT CustomerID FROM Orders;
4
5
6
7
8
9
```

CUSTOMERID
1
2

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SQL Worksheet

◇ Clear ⚲ Find | Actions ∨ | 🖫 Save | Run ▶

```
1  SELECT * FROM Orders WHERE CustomerID IN (SELECT CustomerID FROM Customers WHERE Email = 'john.doe@example.com');
2
3
4
5
6
7
```

ORDERID	CUSTOMERID	ORDERDATE	TOTALAMOUNT
1	1	01-AUG-23	50

Download CSV

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SQL Worksheet

◇ Clear ⚲ Find | Actions ∨ | 🖫 Save | Run ▶

```
1  CREATE VIEW BasicCustomerView AS SELECT CustomerID, FirstName, LastName FROM Customers;
2
3
4
5
6
7
```

View created.

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SQL Worksheet

Clear Find Actions ⌄ Save Run ►

```
1  CREATE VIEW CustomerOrderView AS
2  SELECT C.CustomerID, C.FirstName, C.LastName, O.OrderID, O.OrderDate, O.TotalAmount
3  FROM Customers C
4  INNER JOIN Orders O ON C.CustomerID = O.CustomerID;
5
6
7
8
9
10
11
```

View created.

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SQL Worksheet

Clear Find Actions ⌄ Save Run ►

```
1  CREATE VIEW CustomerTotalSalesView AS
2  SELECT C.CustomerID, C.FirstName, C.LastName, SUM(O.TotalAmount) AS TotalSales
3  FROM Customers C
4  LEFT JOIN Orders O ON C.CustomerID = O.CustomerID
5  GROUP BY C.CustomerID, C.FirstName, C.LastName;
6
7
8
9
10
11
12
```

View created.

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SQL Worksheet

⊘ Clear   ✎ Find   Actions ⌄   💾 Save   Run ▶

```
1  select * from sales_order_data;
2
3
4
5
6
7
```

CHANNEL	SALESORDERLINEKEY	SALESORDER	SALESORDERLINE
Reseller	43659001	SO43659	SO43659 - 1
Reseller	43659002	SO43659	SO43659 - 2
Reseller	43659003	SO43659	SO43659 - 3
Reseller	43659004	SO43659	SO43659 - 4
Reseller	43659005	SO43659	SO43659 - 5
Reseller	43659006	SO43659	SO43659 - 6
Reseller	43659007	SO43659	SO43659 - 7

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