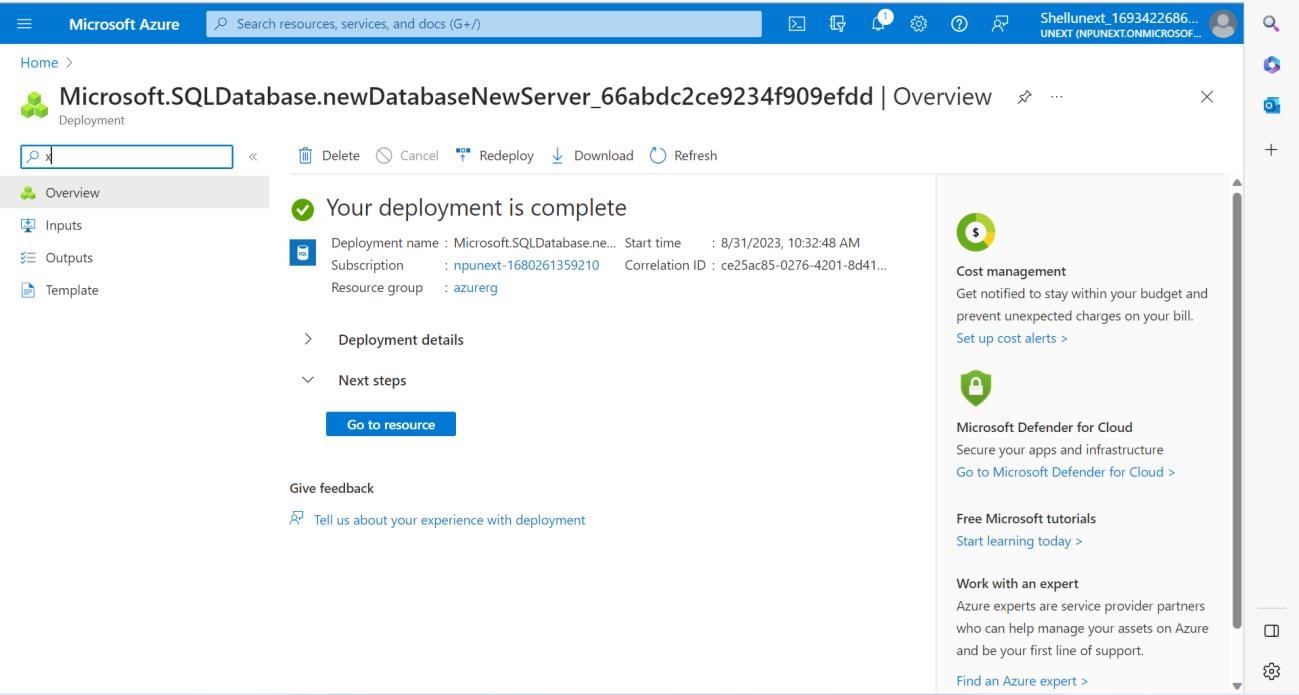
Name: **Ishita Mehta**

Employee Code: **655162**

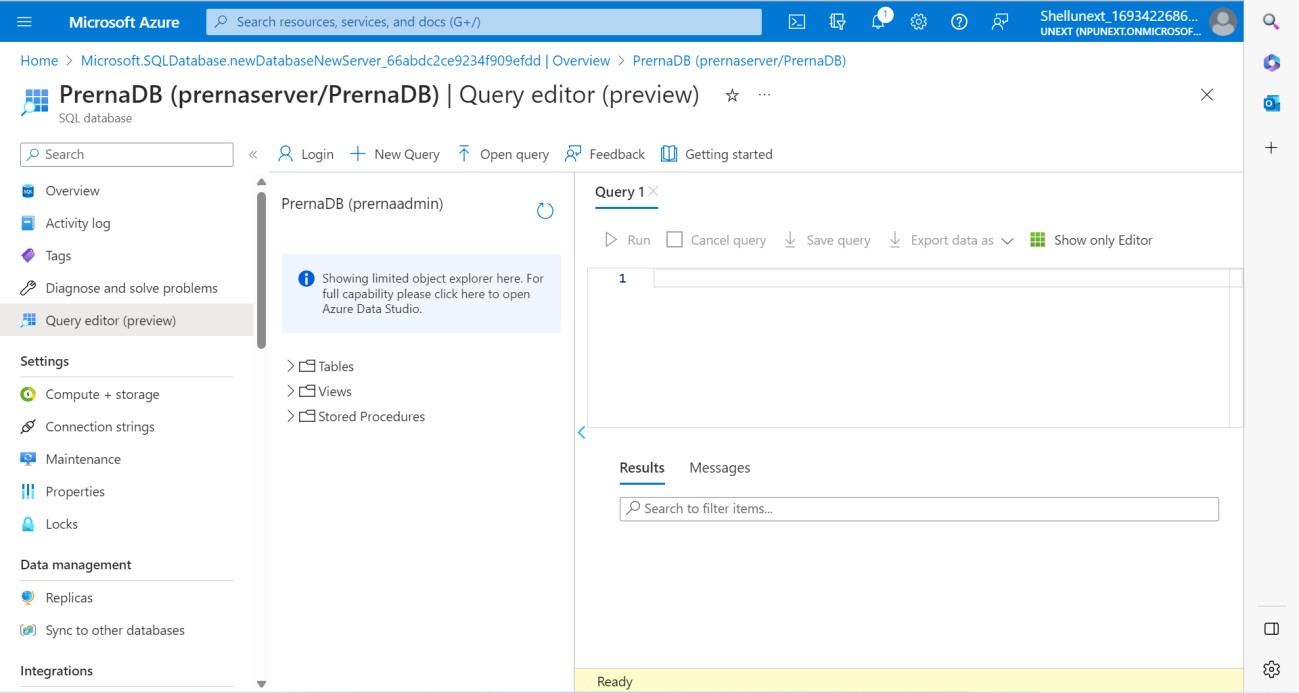
**DAY 3**

**Azure SQL QUERIES**

Creating the SQL Server:



Creating SQL Database:



Queries:

CREATE TABLE Department(

DeptID VARCHAR(50) PRIMARY KEY,

DeptName VARCHAR(50),

DeptCode VARCHAR(50)

);

CREATE TABLE Employee(

EmpID VARCHAR(50) NOT NULL PRIMARY KEY,

EmpName VARCHAR(100),

EmailID VARCHAR(30),

DeptID VARCHAR(50) UNIQUE,

Designation VARCHAR(50),

FOREIGN KEY (DeptID)

REFERENCES Department(DeptID)

);

CREATE TABLE Students(

slno INTEGER,

ID INTEGER,

sname VARCHAR(100),

subject VARCHAR(100),

marks INTEGER);

INSERT INTO Students VALUES(1,5030, 'Ashley', 'DWH', 50);

INSERT INTO Students VALUES(2,5031, 'Priya', 'DWH', 61);

INSERT INTO Students VALUES(3,5032, 'Julia', 'DWH', 90);

INSERT INTO Students VALUES(4,5033, 'Don', 'DWH', 50);

INSERT INTO Students VALUES(5,5034, 'Bob', 'DWH', 65);

INSERT INTO Students VALUES(6,5030, 'Ashley', 'SQL', 75);

INSERT INTO Students VALUES(7,5031, 'Priya', 'SQL', 80);

INSERT INTO Students VALUES(8,5032, 'Julia', 'SQL', 40);

INSERT INTO Students VALUES(9,5033, 'Don', 'SQL', 88);

INSERT INTO Students VALUES(10,5034, 'Bob', 'SQL', 92);

INSERT INTO Students VALUES(11,5030, 'Ashley', 'Azure', 95);

INSERT INTO Students VALUES(12,5031, 'Priya', 'Azure', 95);

INSERT INTO Students VALUES(13,5032, 'Julia', 'Azure', 85);

INSERT INTO Students VALUES(14,5033, 'Don', 'Azure', 57);

INSERT INTO Students VALUES(15,5034, 'Bob', 'Azure', 44);

**--- Query 1 ---**

select s1.s\_name, s1.s\_subject, s1.s\_marks from students s1 join (select s\_subject, max(s\_marks) as max\_marks from students group by s\_subject) s2 on (s1.s\_subject = s2.s\_subject and s1.s\_marks = max\_marks);

*--- OR ---*

with cte as (select dense\_rank() over (partition by s\_subject order by s\_marks desc) xyz, s\_subje ct, s\_marks, s\_name from students)

select \* from cte where xyz = 1;

**--- Query 2 ---**

select \* from students order by s\_subject asc, s\_marks desc;

**--- Query 3 ---**

select \* from students where s\_marks<50;

**--- Query 4 ---**

select \* from students where s\_subject = 'Azure' order by s\_marks desc;

**--- Query 5 ---**

select s\_name, sum(s\_marks) from students group by s\_name;

**--- Query 6 ---**

select s\_name, sum(s\_marks) from students group by s\_name order by sum(s\_marks);

**--- Query 7 ---**

select s\_subject, sum(s\_marks) from students group by s\_subject order by sum(s\_marks);

**--- Query 8 ---**

with cte as (select dense\_rank() over (partition by s\_subject order by s\_marks desc) xyz, s\_subje ct, s\_marks, s\_name from students)

select \* from cte where xyz = 2;

**--- Query 9 ---**

select s1.s\_name, s1.s\_subject, s1.s\_marks, s2.max\_marks from students s1 join (select s\_subject, max(s\_marks) as max\_marks from students group by s\_subject) s2 on (s1.s\_subject = s2.s\_subject);

**--- Query 10 ---**

select \*, (left(s\_name,3) + right(id,2) + '@ta.com') as email from students;