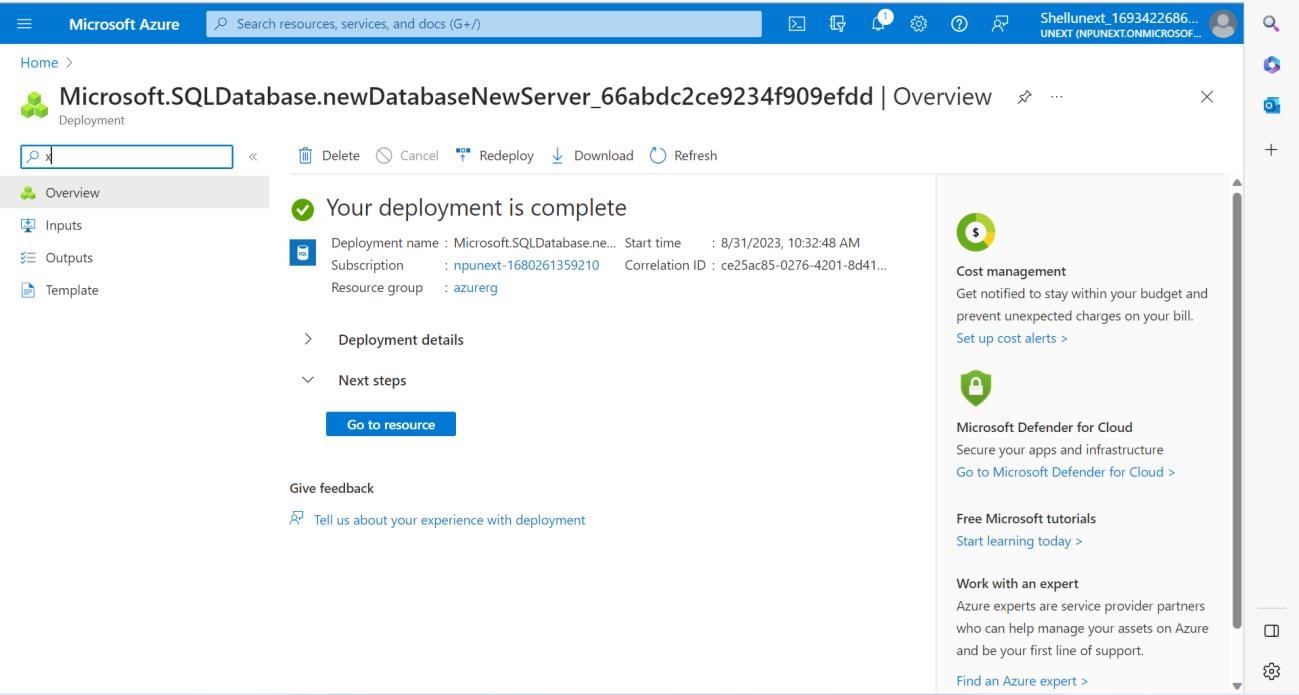
**Omshree R Hiremath**

**Employee Code: 655127**

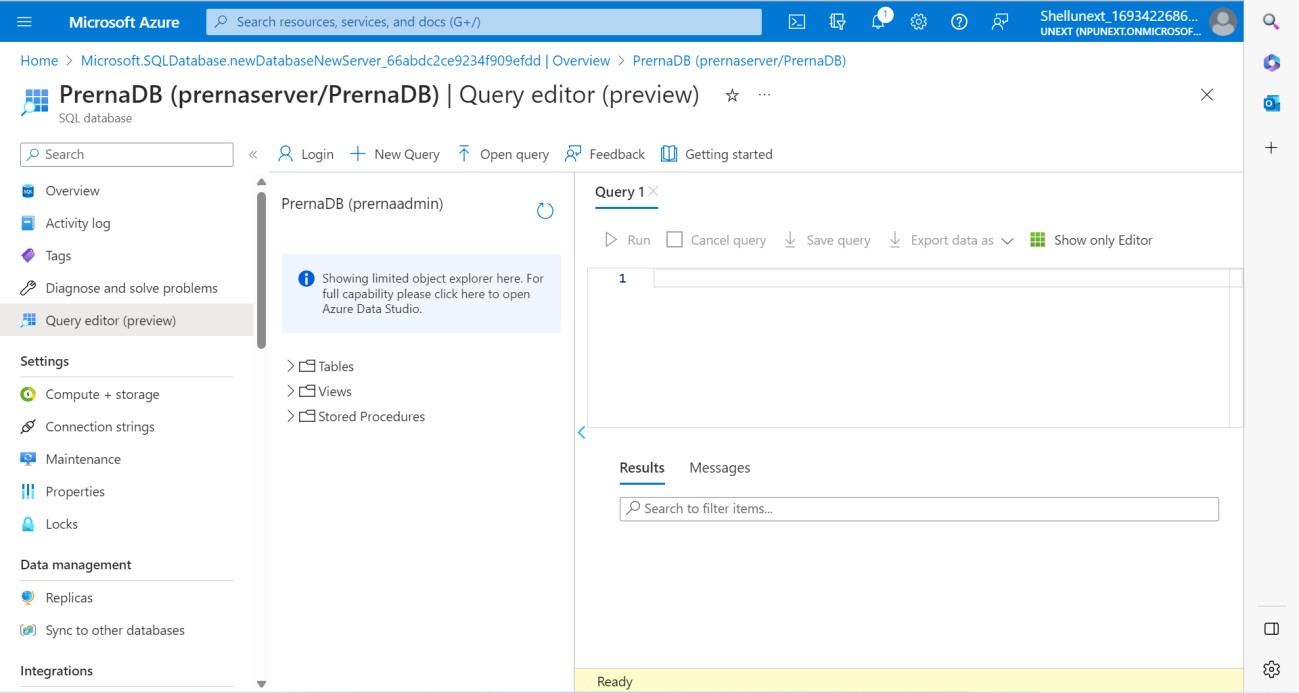
**DBMS Day-3**

**AZURE SQL**

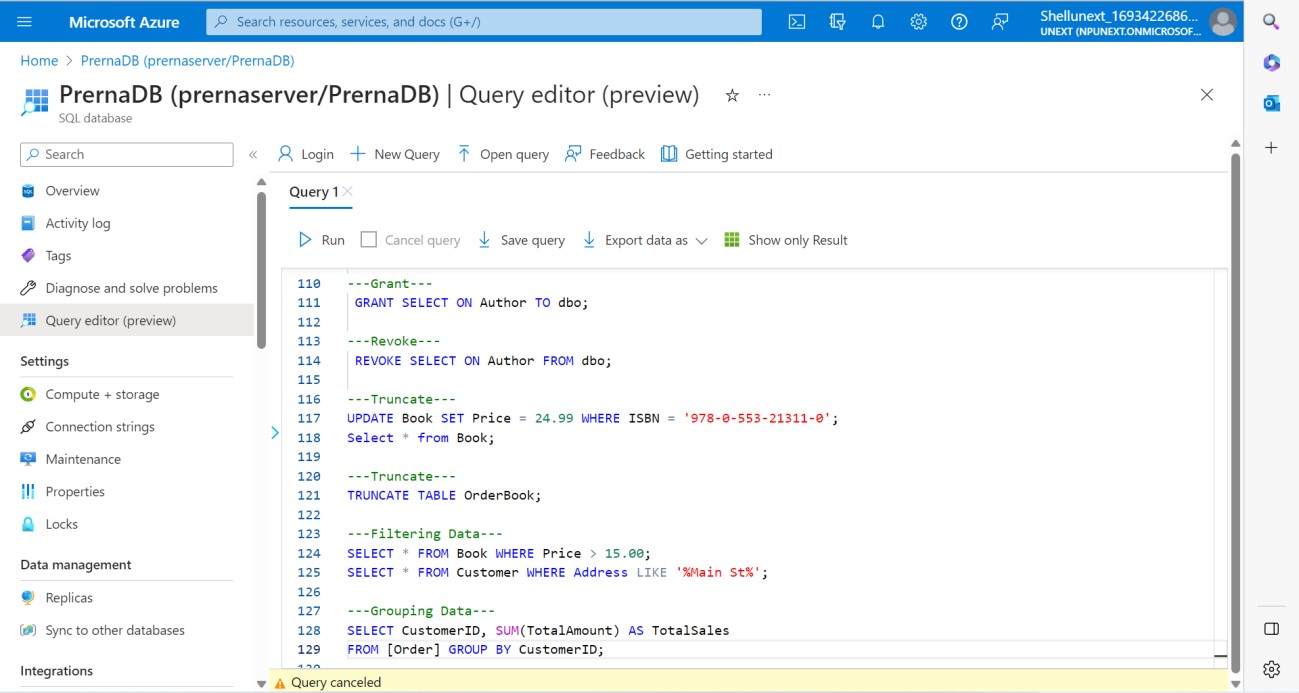
# Creating SQL Server-

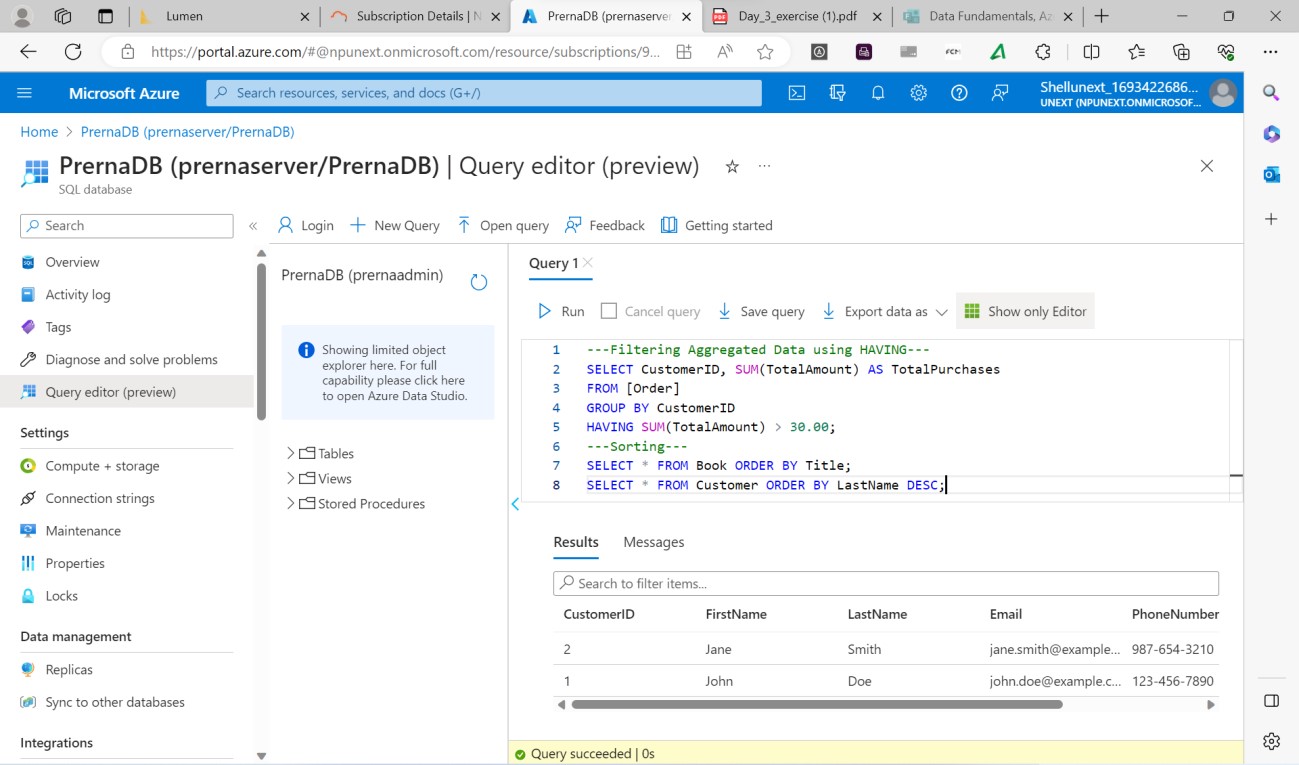


# Creating SQL Database-



# Performing Queries-





# Exercise- 1)

CREATE TABLE DEPARTMENT(

DeptID INT PRIMARY KEY,

DeptName VARCHAR(30),

DeptCode VARCHAR(10)

);

DROP TABLE EMPLOYEE;

CREATE TABLE EMPLOYEE(

EmpID INT PRIMARY KEY,

EmpName VARCHAR(30) NOT NULL,

EmailID VARCHAR(20),

DeptID INT,

FOREIGN KEY(DeptID) REFERENCES DEPARTMENT(DeptID)

);

# 2)

CREATE TABLE DEPARTMENT(

DeptID INT PRIMARY KEY,

DeptName VARCHAR(30),

DeptCode VARCHAR(10)

);

DROP TABLE EMPLOYEE;

CREATE TABLE EMPLOYEE(

EmpID INT PRIMARY KEY,

EmpName VARCHAR(30) NOT NULL,

EmailID VARCHAR(20),

DeptID INT,

FOREIGN KEY(DeptID) REFERENCES DEPARTMENT(DeptID)

);

INSERT INTO DEPARTMENT VALUES (1001,'INFO, DATA AND ANALYTICS','IDA');

INSERT INTO DEPARTMENT VALUES (1002,'TRANSFORMATION CHANGE ANALYST','TCA'); INSERT INTO DEPARTMENT VALUES (1003,'BUSINESS ANALYSIS','BA');

INSERT INTO [dbo].[EMPLOYEE] VALUES (1,'PRERNA','PRERNA@XYZ.COM','1001');

INSERT INTO [dbo].[EMPLOYEE] VALUES (1,'OMSHREE','OM@XYZ.COM','1001');

INSERT INTO [dbo].[EMPLOYEE] VALUES (1,'PRAKET','PRAK@XYZ.COM','1002');

INSERT INTO [dbo].[EMPLOYEE] VALUES (1,'SIDDHARTH','SID@XYZ.COM','1002');

INSERT INTO [dbo].[EMPLOYEE] VALUES (1,'SAKETH','SAKETH@XYZ.COM','1003');

INSERT INTO [dbo].[EMPLOYEE] VALUES (1,'SANJANA','SANJ@XYZ.COM','1003');

CREATE TABLE STUDENTS(

SLNO INT PRIMARY KEY,

ID INT,

SNAME VARCHAR(20),

SSUBJECT VARCHAR(20),

MARKS INT);

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',45);

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);

SELECT \* FROM STUDENTS;

# --- 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;