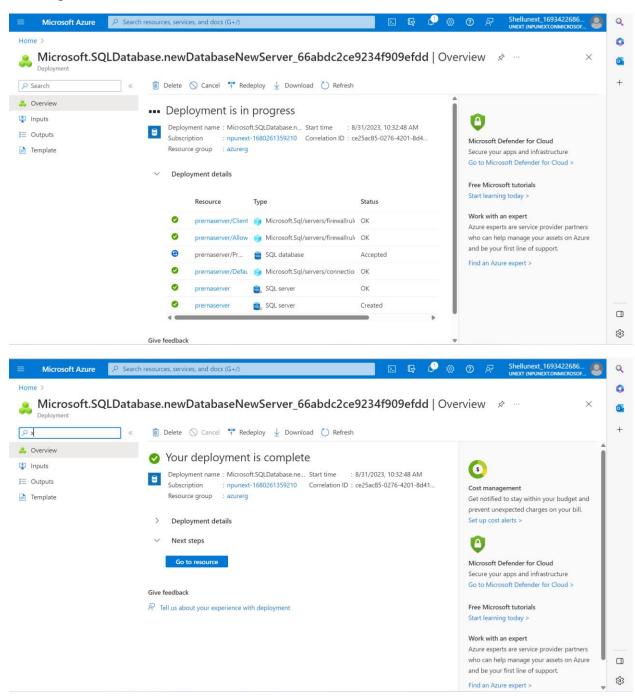
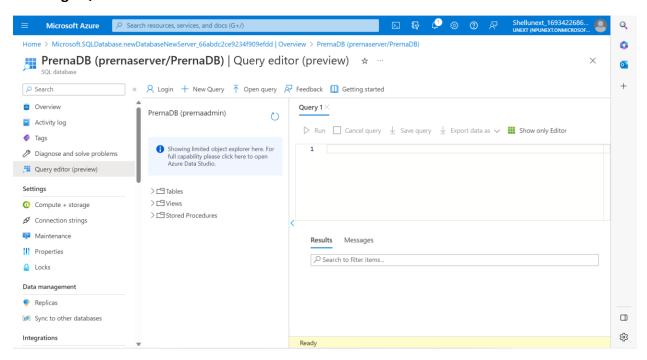
Emp Code- 654870

AZURE SQL

Creating SQL Server-



Creating SQL Database-

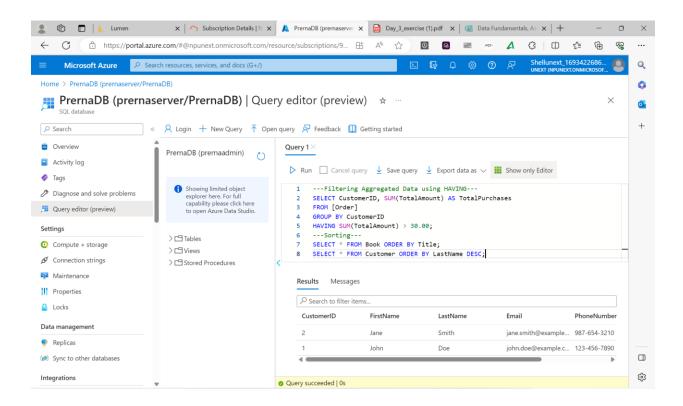


Performing Queries-

```
Home > PrernaDB (prernaserver/PrernaDB)
                                                                                                                                    O
PrernaDB (prernaserver/PrernaDB) | Query editor (preview) * **
                           Redback Getting started
Search
Overview
                            Query 1×
Activity log
                             Tags
                             110
Diagnose and solve problems
                                   GRANT SELECT ON Author TO dbo;
Query editor (preview)
                             112
                             113
Settings
                                   REVOKE SELECT ON Author FROM dbo;
                             115

    Compute + storage

                             117
                                  UPDATE Book SET Price = 24.99 WHERE ISBN = '978-0-553-21311-0';
118
                                  Select * from Book;
Maintenance
                             120
                                   ---Truncate---
Properties
                                  TRUNCATE TABLE OrderBook;
                             121
Locks
                                  ---Filtering Data---
SELECT * FROM Book WHERE Price > 15.00;
SELECT * FROM Customer WHERE Address LIKE '%Main St%';
                             123
Data management
                             126
Replicas
                                                                                                                                   SELECT CustomerID, SUM(TotalAmount) AS TotalSales FROM [Order] GROUP BY CustomerID;
Sync to other databases
                             128
                             129
                                                                                                                                    (ģ)
Integrations
                         ▼ A Query canceled
```



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
(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;
--- Querv 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;