```sql
-- Use Database
USE BUDT702_Project_0501_01;

-- Business transactions, in WH-questions, to implement mission objectives.



-- What years of Full - time MBA had an employment rate greater than or equal to
90%?
GO
DROP VIEW IF EXISTS Year_EmploymentRate_view
GO
CREATE VIEW Year_EmploymentRate_view AS
      SELECT y.facYear AS  'Year', y.facEmploymentRate AS 'Employment Rate'
      FROM YearlyRankingFactors y
      WHERE y.facEmploymentRate >= 90
      AND y.prgId = (SELECT p.prgId FROM Program p WHERE p.prgName = 'Full-Time
MBA')

GO
SELECT *
FROM  Year_EmploymentRate_view;



-- What is the program and its department with the highest average starting salary
in 2022?

GO
DROP VIEW IF EXISTS Program_HighestAverageSalary_view
GO
CREATE VIEW Program_HighestAverageSalary_view AS
      SELECT TOP 1 p.prgName AS  'Program Name',  d.depName AS  'Department Name'
      FROM Program p
      JOIN AcademicDepartment d ON p.depId = d.depId
      JOIN YearlyRankingFactors y  ON p.prgId = y.prgId
      WHERE y.facYear = '2022'
      ORDER BY y.facAvgStartSalary DESC

GO
SELECT *
FROM Program_HighestAverageSalary_view;



-- List all programs rankings by a website and try to analyze trend across years
GO
DROP VIEW IF EXISTS Programs_Ranking_view
GO
CREATE VIEW Programs_Ranking_view AS
      SELECT p.prgName AS 'Program Name', y.facYear AS 'Year', r.rank
      FROM Program p
      JOIN YearlyRankingFactors y  ON p.prgId = y.prgId
      JOIN Ranks r ON y.prgId = r.prgId AND y.facYear = r.facYear
      JOIN RankingWebsite w ON r.webId = w.webId
      WHERE w.webName = 'US News'
      GROUP BY p.prgName, y.facYear, r.rank

GO
```

```
SELECT *
FROM Programs_Ranking_view;




-- What is the return on investment for each program during 2022? (ROI = Employment
rate * average starting salary * 10 / tuition fee * program length in years)

GO
DROP VIEW IF EXISTS Return_Inv_view
GO
CREATE VIEW Return_Inv_view AS
      SELECT p.prgName AS 'Program Name',
      CAST((y.facEmploymentRate * y.facAvgStartSalary * 10) /
      (y.facTuitionFees * p.prgDuration) AS DECIMAL(10,2)) AS 'Return on
Investment'
      FROM Program p
      JOIN YearlyRankingFactors y ON p.prgId = y.prgId
      WHERE y.facYear = '2022'

GO
SELECT *
FROM Return_Inv_view;
```