7) Find the average GPA of students that are required to take any courses in the BSBA program. List the course number, course name, and average GPA of enrolled students. List only the courses with an average GPA of more than 3.

```sql
36  ●  SELECT courses.CourseNumber, courses.Name, avg(students.GPA)
37      FROM courses, students, enrollments
38      WHERE courses.courseNumber = enrollments.courseNumber AND students.studentName = enrollments.StudentName
39      AND enrollments.required = "Y" AND Program = "BSBA"
40      GROUP BY courses.CourseNumber
41      HAVING avg(students.GPA) > 3 ;
```

CourseNumber	Name	avg(students.GPA)
ACCT 345	Auditing	3.205
ACCT 360	Financial Statement Analysis	3.57
ACCT 384	Special Topics in Accounting	3.51
DAT 121	Managerial Statistics II	3.5549999999999997
DAT 200	Analytics and Modelling for Business Decisions	3.56
FIN 402	Venture Capital Methods	3.37
FIN 411	Investments	3.545
MGT 402	Ethical Issues in Managerial Decision Making	3.87
MGT 415	Introduction to Entrepreneurship	3.87
MGT 416	Management and Corporate Responsibility	3.87
MGT 420	Critical Thinking and Complex Problem Solvin...	3.95
MGT 434	Introduction to Social Entrepreneurship	3.95
MKT 370	Principles of Marketing	3.82

8) For each student who is enrolled in more than 3 courses find the name, gender, and the number of enrolled courses. Order the result in increasing order of enrolled courses.

```sql
43  ●  SELECT students.StudentName, students.Gender, count(enrollments.StudentName)
44      FROM students join enrollments
45      ON students.StudentName = enrollments.StudentName
46      GROUP BY students.StudentName
47      HAVING count(enrollments.StudentName) > 3
48      ORDER BY count(enrollments.StudentName) ;
```

StudentName	Gender	count(enrollments.StudentName)
Ace Rogers	M	4
Benedict Yates	M	4
Everly Cooper	F	4
Luella Dupont	F	4
Olivia-Rose Rosales	F	4
Rodrigo Sargent	M	4

9) Find the pairs of articles (any type of article, means article, case, simulation,..) from the same publishers with different formats. List the article number, Title, and publisher.

```sql
50  ●  SELECT p1.ArticleNumber, p1.Title, p1.Publisher, p2.ArticleNumber, p2.Title
51      FROM articles AS p1 JOIN articles AS p2
52      WHERE p1.Publisher = p2.Publisher and p1.Format > p2.Format and p1.ArticleNumber > p2.ArticleNumber ;
53
```

ArticleNumber	Title	Publisher	ArticleNumber	Title
548975	Starbucks Trasnformation	Kestrel Publications	543017	Find the Coaching in Criticism
640523	Choosing a Cloud Providor	Mobileskies	543008	Information Partnerships: Shared Data, Shared ...
640523	Choosing a Cloud Providor	Mobileskies	543016	One Cost System Isn't Enough
640523	Choosing a Cloud Providor	Mobileskies	543022	What Marketers Misunderstand About Online R...
648015	Optimized Digital Business Model at Top Place	RR Donnelley Tech Services LLC	543021	Defeating Feature Fatigue
648015	Optimized Digital Business Model at Top Place	RR Donnelley Tech Services LLC	647123	What Does It Take to Build a Data-Driven Cultu...
648735	Target the Right Market	Harvard Business Review	647258	Data Scientist: The Sexiest Job of the 21st Cen...
648735	Target the Right Market	Harvard Business Review	647954	Generative AI Will Change Your Business. Here'...
648888	Detrol: Learning About the Opportunity	Harvard Business Review	647258	Data Scientist: The Sexiest Job of the 21st Cen...
648888	Detrol: Learning About the Opportunity	Harvard Business Review	647954	Generative AI Will Change Your Business. Here'...
648888	Detrol: Learning About the Opportunity	Harvard Business Review	648777	Marketing Intelligence
649002	Carly's Car Clinic	Unisource Worldwide Inc	543013	Managing the Crises in Data Processing
649002	Carly's Car Clinic	Unisource Worldwide Inc	543018	Cultivating Everyday Courage

10) Find the courses enrolled by any student who has the letter "D" in their name. List the course name, section, and faculty name.

```
54      #10
55 •    SELECT DISTINCT courses.Name, courses.Sections, courses.FacultyName
56      FROM students, courses, enrollments
57      WHERE courses.courseNumber = enrollments.courseNumber AND students.studentName = enrollments.StudentName
58      AND LOWER(students.StudentName) LIKE '%d%' ;
59
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

Name	Sections	FacultyName
Principles of Managerial Accounting	6	Shelly Warren
Auditing	2	Tracey Medina
Principles of Marketing	1	Bruce Higgins
Principles of Financial Accounting	5	Tracey Medina
Capital Markets and Financial Management	3	Andrew Greer
Accounting Policy and Research	2	Mitchell Austin
Financial Statement Analysis	1	Mitchell Austin
Managerial Statistics I	6	Fredrick Evans
Social Entrepreneurship	3	Sophia Castro
Predictive Analytics for Business Decision-Making	3	Beatrice Warren
Intro to Python and Data Science	3	Beatrice Warren
Analytics-Driven Brand Management	2	Deangelo Brandt
Ethical Issues in Managerial Decision Making	5	NULL

11) Find the courses taught by female faculties with more than 4 students enrolled. List the course number, faculty name, number of enrolled students, and program.

```
60 •    SELECT courses.CourseNumber, courses.FacultyName, count(enrollments.studentname), Program
61      FROM courses, enrollments
62      WHERE courses.courseNumber = enrollments.courseNumber and FacultyGender = "F"
63      GROUP BY courses.CourseNumber
64      HAVING count(enrollments.studentname) > 4 ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

CourseNumber	FacultyName	count(enrollments.studentname)	Program
ACCT 510	Claudie Riddick	5	MACC
ACCT 520	Tracy Chaong	6	MACC
DAT 500	Beatrice Warren	8	MSBA
MGT 579	Sophia Castro	5	MBA

12) For the courses which have group assignment, list the course number, course name, title, article number, author, and assignment date. Only include coursepacks with assigned dates in September or October. Sort the results in ascending order of course name. Hint: You need to use Coursepacks.Group for the Group attribute.

```
66 •    SELECT courses.CourseNumber, courses.Name, Title, coursepacks.ArticleNumber, Author, AssignedDate
67      FROM courses, articles, coursepacks
68      WHERE courses.courseNumber = coursepacks.courseNumber and articles.ArticleNumber = coursepacks.ArticleNumber
69      AND ( month(AssignedDate) = 9 OR month(AssignedDate) = 10 )
70      ORDER BY courses.Name;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

CourseNumber	Name	Title	ArticleNumber	Author	AssignedDate
DAT 501	A/B Testing in Business and Social Science	What Does It Take to Build a Data-Driven Cultu…	647123	Jamie White	2022-10-10 12:00
DAT 501	A/B Testing in Business and Social Science	A Better Way to Put Your Data to Work	543010	Kayvaun Rowshankish	2022-10-21 12:00
DAT 501	A/B Testing in Business and Social Science	Generative AI Will Change Your Business. Here'…	647954	Mark Abraham	2022-09-07 06:00
DAT 501	A/B Testing in Business and Social Science	Choosing a Cloud Providor	640523	Mary Singles	2022-09-26 12:00
ACCT 262	Accounting Policy and Research	Why Good Accountants Do Bad Audits	543015	Don A. Moore	2022-09-15 18:00
ACCT 262	Accounting Policy and Research	Ryanair Holdings plc	649023	Mark T. Bradshaw	2022-09-22 12:00
SCOT 510	Advanced Operations Strategy	Supply Chain Management Simulation: Root Bee…	322005	HBSP	2022-09-23 06:00
DAT 200	Analytics and Modelling for Business Decisions	UCB: Data is the New Drug	649012	Stijn Viaene	2022-10-13 06:00
DAT 200	Analytics and Modelling for Business Decisions	Data Scientist: The Sexiest Job of the 21st Cen…	647258	Thomas H. Davenport	2022-09-24 12:00
DAT 200	Analytics and Modelling for Business Decisions	The Weather Company: Creating Consumer Ap…	649010	Ruth Gilleran	2022-09-02 00:00
DAT 200	Analytics and Modelling for Business Decisions	Why IT Fumbles Analytics	543007	Joe Peppard	2022-09-16 00:00
DAT 200	Analytics and Modelling for Business Decisions	The Truths About IT Costs	543009	Susan Cramm	2022-10-01 12:00

13) How much time did you spend on this assignment?

2~3 HOUR