

## Assignment 2

### 2.14

- Outsourcing can be used to economize resources spent of training of the staff
- Outsourcing might help reduce financial risks connected to developing or running a specific application
- Might be more beneficial in terms of taxation - outsourcing might be done outside the country where the tax regulations are different
- Outsourcing may be performed with the help of companies specialized on the certain task.

**2.15** An organization that deals with a large amount of data wants to implement a database management system (DBMS) to properly store and manage it. This organization has short-listed Oracle, MySQL, and Microsoft SQL Server as the top DBMS tools available in the market. List the features pro-vided by these DBMS tools.

	Oracle	MySQL	MicrosoftSQL
Relational Database	o	o	o
SQL supported	o	o	o
Data scheme	o	o	o
Open-sourced	x	o	x
Constant Updates	Last release Feb 2019	Last release Jan 2022	Last release Nov 2019
Foreign keys	o	o	o
Partitioning methods	horizontal partitioning, sharding	horizontal partitioning, sharding with MySQL Cluster or MySQL Fabric	horizontal partitioning, sharding through federation
Supported OS	Windows, Linux, MacOS, FreeBSD, AIX, Solaris, HP-UX	Windows, Linux, MacOS, FreeBSD	Windows, Linux

**2.16** Suppose you are an IT manager at your institute. List any two open-source software packages besides Microsoft Office that can be used for routine work in your office. Download both and test them out to decide which one is better suited to your work requirements

1. LibreOffice is an open-source free software which is an alternative for Microsoft Office.
2. Apache OpenOffice  
I personally prefer LibreOffice. Both software packages are very similar, but I liked the interface in LibreOffice slightly more. Also, I observed a more enthusiastic and careful customer support from the LibreOffice team.

### **Field Exercise 2.19**

Contact an organization that has implemented or is implementing an integrated ERP application. Why did it choose this design strategy? How has it managed this development project differently from prior large projects? What organizational changes have occurred due to this design strategy? How long did the implementation last, and why?

It is known that Starbucks uses Oracle ERP. The company support did not answer me, however, I can say that Oracle ERP manages such processes as financial processes, inventory management, order management, security, etc.