

Question 1 - Formulate the following queries in SQL.

Schema

Blog [BlogSite, Owner, DateCreated]

Article [BlogSite, ArticleTitle, ArticleType, Length-in-Words, AuthorName]

- a) List all blog sites that Owner *sqlUser* created between 1/1/2017 to 1/2/2017.

- b) Find the average word length of all articles of type '*tech*' in blog site '*howtosql.com*'

- c) How many Articles does the blog site '*howtosql.com*' have?

d) Which Owner(s) have at least 4 blog sites?

e) Find all blog sites with an owner starting with A.

Question 2 - Formulate the following queries in SQL using the following schema.

EMPLOYEE

Fname	Minit	Lname	<u>Ssn</u>	Bdate	Address	Sex	Salary	Super_ssn	Dno
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DEPARTMENT

Dname	<u>Dnumber</u>	Mgr_ssn	Mgr_start_date
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DEPT_LOCATIONS

<u>Dnumber</u>	<u>Dlocation</u>
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PROJECT

Pname	<u>Pnumber</u>	Plocation	Dnum
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WORKS_ON

<u>Essn</u>	<u>Pno</u>	Hours
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DEPENDENT

<u>Essn</u>	<u>Dependent_name</u>	Sex	Bdate	Relationship
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- a) Retrieve the names of employees in department 5 who work more than 10 hours per week on the 'ProductX' project.

- b) List the names of employees who have a dependent with the same first name as themselves.

- c) For each project, list the project name and the total hours per week (by all employees) spent on that project.

- d) For each department whose average employee salary is more than \$30000, retrieve the department name and the number of employees working for that department.