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1.what is difference between VARCHAR and VARCHAR2 datatype in SQL?

Varchar distinguishes between empty strings and nulls

2.what do you understand by query optimization?

the most efficient means of executing a SQL statement.

Query optimization is a feature of many relational database management systems and other databases such as graph databases. The **query** optimizer attempts to determine the most efficient way to execute a given **query** by considering the possible **query** plans

3.Mention the differences between Django, Pyramid and Flask?

Flask is mostly aimed at small applications with simpler requirements but Pyramid and Django are both aimed at larger applications, but take different approaches to extensibility and flexibility. Pyramid targets flexibility and lets the developer use the right tools for their project.

Flask provides support for API while **Django** doesn't have any support for API. **Flask** does not support dynamic HTML pages **and Django** offers dynamic HTML pages. **Flask** is a Python web framework built for rapid development whereas **Django** is built for easy **and** simple projects

Flask performs better than Django

4.JAVA

5. JAVA