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1.JAVA

2.JAVA

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4. can you list all of the joins in SQL and the use case for each?

Inner Join: data that doesn't have an associated common field between tables is not shown

Left Join: data from the right table won't be joined to the left table if the common field on the left table isn't present in the right table

Right Join: same as above, but switch left and right table

Full Outer Join: all rows displayed from both tables regardless of if there is a common field between them

Cross-Join: doesn't link tables on a common field, but list all combinations of rows between both tables

Self-Join: when you join a table on itself, the table has a foreign key or field that points to a value from its primary key column

Multi Join: a single join happens between two tables, but can latch on multiple joins together to have joins between many tables

Anti-Join: returns match from the first table where no matches were found in the second table

5.How would you explain the concept of a query to a non-technical audience?

Query languages or data query languages are computer languages used to make queries and interact in databases and information systems and computer able to recognize them.