1. **How do you load data end to end from source to destination?**

It depends on the data size of the data; I will use either look up or SQL merge statement. If I decided to use look up, I have to replace OLEDB command by an intermediate table (temporary table). for fact tables load I use OLEDB destination component.

1. **How do you handle data exceptions**?

Using redirect rows to desired destination, for example redirecting on error output flat file.

Redirect row

Fail component🡪 if the exception is not material.

Ignore error

1. As a database developer how do you know if the data is completely loaded into the destination and ready to be handed to the QA team?

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I will check package explorer if everything is completed 100%.

I will run sample query in the source and destination table to check it matches or not

(Have the same number of output).

1. What do you understand by data profiling?

how do you know if the data is completely loaded into the destination and ready to be handed to the QA team?The process yields a high-level overview which aids in the discovery of data quality issues, risks, and overall trends. Data profiling produces critical insights into data that companies can then leverage to their advantage.

1. Why we need stagging environment?
2. Do you have additional experience with azure sql?
3. What is the difference between union and union all?

Union vs union all

**UNION:** only keeps *unique* records

**UNION ALL:** keeps all records, including *duplicates*

1. What the merge statement does?

Insert -- data in source into destination table

Update — update

MERGE statement is used to **synchronize two tables by inserting, deleting, and updating the target table rows based on the join condition with the source table**.

Its capable of doing insert, update and delete in a single statement.

1. What a cross apply / outer apply do?

cross apply—inner –b/n fun&table

outer apply—left ---b/n fun&table

1. Tell me about a little bit from if you want to develop a data mart for reporting purpose.

Give me a big picture of it

Oltp –db—er modeleling

Olap -- dbdb- datamodel

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dimentional modeling---conceptual---entity, logical attributes key determined, physical

* ----demarmize
* ----- fact & dimention

Report-- set source

* A **data mart** is a subset of a **data warehouse** focused on a particular line of business, department, or subject area

1. How do you handle data exceptions?
2. Validating incoming data.
3. Implementing error handling mechanisms.
4. Logging errors for debugging.
5. Setting up alerts for immediate action.
6. Designing fallbacks for problematic data.
7. Planning for data recovery.
8. Providing clear user feedback.
9. Continuously monitoring and improving handling strategies.
10. **Data mapping** is the process of matching fields from one database to another. It's the first step to facilitate data migration, data integration, and other data ...
11. To configure Error Handling in SSIS, **drag and drop another OLE DB destination to store the error output.** **Next, drag the Red line from Data Conversion (Error Output) to OLE DB Destination 1**.
12. SSIS package should process all useful data, and bad data should be sent in a separate file.