



Basics of DAACS Database

SQL database structure

Summary of SQL Query Format

SELECT

What we want our data to look like

FROM

What tables need to be used to get this data

WHERE

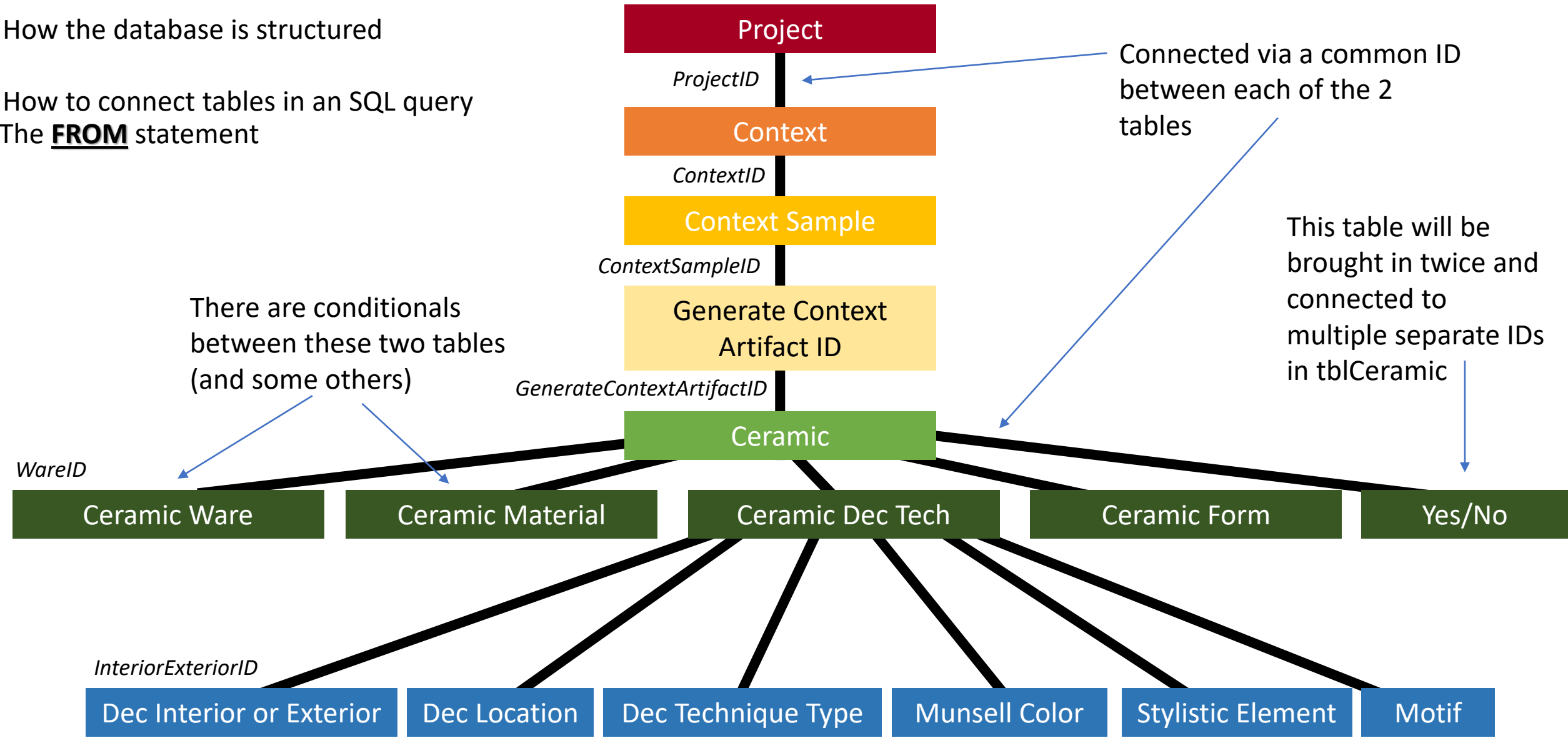
How we want to filter our data

GROUP BY

If we have any functions in the SELECT clause, we'll dictate here how we want the data to be grouped

How the database is structured

How to connect tables in an SQL query
The **FROM** statement



How to acquire information from the database

How to view certain fields in an SQL query

The **SELECT** statement

Post-Manufacturing Modification

Decoration?

| <u>FROM</u> | | <u>SELECT</u> |
|---------------------------|------------------------------|-----------------------------------|
| ProjectID | Project | Project ID |
| ContextID | Context | Context ID |
| ContextSampleID | Context Sample | [Nothing] |
| GenerateContextArtifactID | Generate Context Artifact ID | [Nothing] |
| | Ceramic | ArtifactID, Quantity, Notes, etc. |
| WareID | Ceramic Ware | Ware |
| CeramicMaterialID | Ceramic Material | Material |
| CeramicFormID | Ceramic Form | Form |
| PMM → YesNoID | Yes/No | Yes/No as "PMM?" |
| DecoratedYN → YesNoID | Yes/No | Yes/No as "Decoration?" |
| ArtifactID | Ceramic Dec Tech | [Nothing] |
| InteriorExteriorID | Dec Interior or Exterior | Interior or Exterior |
| CeramicDecTechLocationID | Dec Location | Location |
| CeramicDecTechTypeID | Dec Technique Type | Technique Type |
| MunAppColorID | Munsell Color | Detailed Color |
| CeramicDecTechStyElemID | Stylistic Element | Stylistic Element |
| CeramicDecTechMotifID | Motif | Motif |

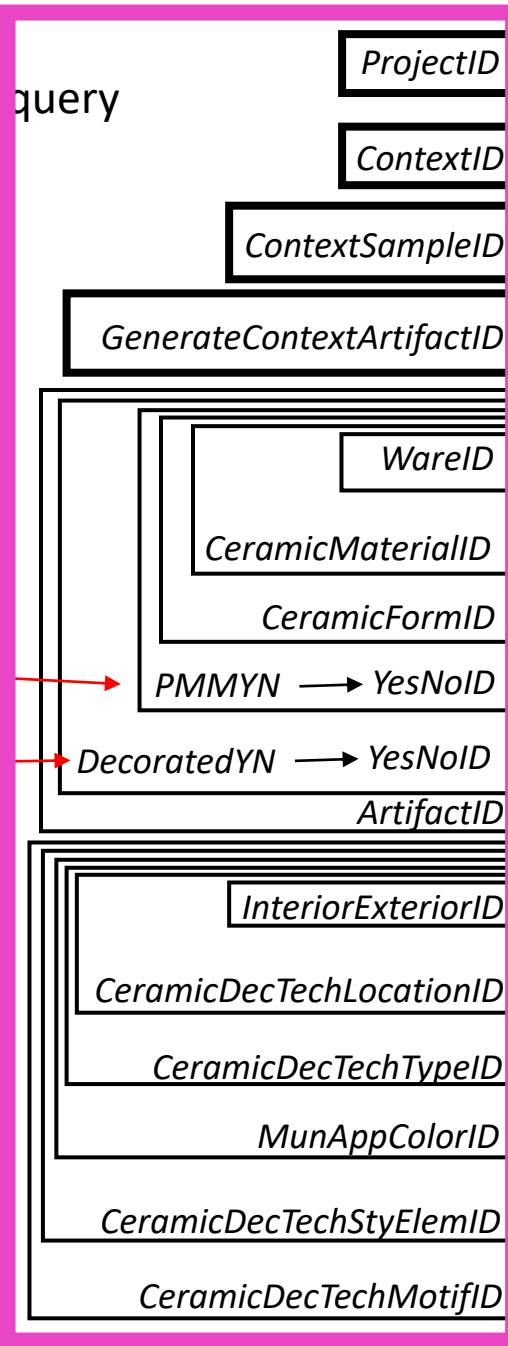
How to acquire information from the database

How to view certain fields in an SQL query
The **SELECT** statement

THESE are different column fields within the same one of **THESE** tables

Post-Manufacturing Modification

Decoration?



FROM

| |
|------------------------------|
| Project |
| Context |
| Context Sample |
| Generate Context Artifact ID |
| Ceramic |
| Ceramic Ware |
| Ceramic Material |
| Ceramic Form |
| Yes/No |
| Yes/No |
| Ceramic Dec Tech |
| Dec Interior or Exterior |
| Dec Location |
| Dec Technique Type |
| Munsell Color |
| Stylistic Element |
| Motif |

SELECT

| |
|-----------------------------------|
| Project ID |
| Context ID |
| [Nothing] |
| [Nothing] |
| ArtifactID, Quantity, Notes, etc. |
| Ware |
| Material |
| Form |
| Yes/No as "PMM?" |
| Yes/No as "Decoration?" |
| [Nothing] |
| Interior or Exterior |
| Location |
| Technique Type |
| Detailed Color |
| Stylistic Element |
| Motif |

And then we can manipulate this data if we want, using functions...

- SUM()
- Aggregate fields into one summary line

And we can also bring in data from those “Uncle” and “Aunt” tables as well...

- Images
- Object info

Always want to think about the level at which we’re querying data:

- Artifact ID (i.e., individual entries)
- Object ID
- Context ID
- Project ID

**Think back to the parent-child relationship

SELECT

Project ID

Context ID

[Nothing]

[Nothing]

ArtifactID, Quantity, Notes, etc.

Ware

Material

Form

Yes/No as “PMM?”

Yes/No as “Decoration?”

[Nothing]

Interior or Exterior

Location

Technique Type

Detailed Color

Stylistic Element

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