

Strategies for Writing Queries

Two strategies –

- start with FROM – build a table that contains all of the rows in the desired result and all of the columns you need for the WHERE and SELECT clauses
 - add WHERE to pick the desired rows
 - add SELECT to pick the desired columns
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- start with FROM – build a table that contains all of the rows in the desired result and all of the columns that you need for the SELECT clause
 - add WHERE to pick the desired rows, using a subquery if the condition involves information not in the FROM table
 - add SELECT to pick the desired columns

Writing Queries

Keep in mind –

- queries should work for all possible data, not just a specific instance
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- NULL values
 - assume NULL values are possible unless disallowed e.g. primary key, NOT NULL constraint
 - duplicates
 - assume duplicates are possible unless disallowed e.g. primary key, UNIQUE constraint
 - a JOIN or NATURAL JOIN with no matches in the other table “loses” that row