

Designing a MySQL Table from a CSV

Design the destination table from the meaning of the data, not merely its appearance in a spreadsheet.

CSV field	MySQL type	Rule
match_id	VARCHAR(20)	unique and required
team_name	VARCHAR(100)	required
wins	INT	zero or greater
losses	INT	zero or greater

```
CREATE TABLE team_results (  
  result_id INT AUTO_INCREMENT PRIMARY KEY,  
  match_id VARCHAR(20) NOT NULL UNIQUE,  
  team_name VARCHAR(100) NOT NULL,  
  wins INT NOT NULL,  
  losses INT NOT NULL  
);
```

A surrogate primary key supports database operations; the unique source identifier prevents accidental duplicates.

Design questions

- Does one CSV row represent one entity or a relationship?
- Which values repeat independently and belong in related tables?
- Which constraints protect data quality?
- Will repeated imports insert, reject or update existing records?

Document and justify the chosen policy.

Check

- ☐ Types and lengths fit expected values.
- ☐ Required fields are constrained.
- ☐ Duplicate behaviour is defined.
- ☐ Relationships reflect the solution's data needs.

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