

Optimized Queries for Laravel Projects

Basic CRUD Operations

Insert Single Record

Adds one record to the table.

Insert Multiple Records

Adds multiple records to the table.

Insert and Get ID

Adds a record and retrieves its ID.

Select All Records

Retrieves all records from a table.

Select Specific Columns

Retrieves specified columns from a table.

Select with Conditions

Retrieves records that match certain conditions.

Select with Pagination

Retrieves records with pagination.

Optimized Queries for Laravel Projects

Select with Relationships

Retrieves records with related data from another table.

Update Single Record

Modifies one record in the table.

Update Multiple Records

Modifies multiple records that match certain conditions.

Update Specific Columns

Updates only specified columns in the record.

Delete Single Record

Removes one record from the table.

Delete Multiple Records

Removes multiple records that match certain conditions.

Soft Delete

Marks a record as deleted without removing it from the database.

Advanced Queries

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Join Tables

Combines records from two or more tables.

Subqueries

Uses a query inside another query.

Aggregates

Performs calculations on data, like COUNT, SUM, AVG.

Group By

Groups records based on a column.

Having

Filters groups created by the GROUP BY clause.

Ordering

Sorts records by specified columns.

Distinct

Retrieves unique records.

Authentication and User Management

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User Registration

Inserts new user data.

User Login

Verifies user credentials.

Password Reset

Updates user password.

Email Verification

Marks email as verified.

Transactions

Begin Transaction

Starts a new database transaction.

Commit Transaction

Saves the transaction.

Rollback Transaction

Reverts the transaction.

Optimized Queries for Laravel Projects

Complex Data Retrieval

Eager Loading

Loads related models to avoid N+1 problem.

Lazy Loading

Loads related models on demand.

Nested Relationships

Retrieves deeply nested related data.

Polymorphic Relationships

Manages polymorphic relations in queries.

Optimization and Indexing

Using Indexes

Optimizes queries by utilizing indexes.

Analyzing Query Performance

Reviews query execution plans.

Miscellaneous

Raw Queries

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Executes raw SQL queries.

Stored Procedures

Calls stored procedures.

View Queries

Retrieves data from database views.

Optimized CRUD Operations

Insert Single Record

Adds one record to the table.

Insert Multiple Records

Adds multiple records to the table in one query.

Select Specific Columns

Retrieves specified columns to reduce data load.

Select with Conditions

Retrieves records that match certain conditions using indexed columns.

Select with Pagination

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Retrieves records with pagination.

Select with Relationships

Retrieves records with related data using eager loading.

Update Specific Columns

Updates only specified columns in the record.

Conditional Updates

Updates multiple records that match certain conditions.

Soft Delete

Marks a record as deleted without removing it from the database.

Batch Delete

Deletes multiple records in one query.

Optimized Advanced Queries

Join Tables

Combines records from two or more tables using indexed columns.

Aggregates

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Performs calculations on data using indexed columns.

Group By

Groups records based on indexed columns.

Ordering

Sorts records by specified columns using indexes.

Authentication and User Management (Optimized)

User Login

Verifies user credentials using optimized queries.

Transactions (Optimized)

Use Transactions Wisely

Wrap critical sections in transactions only when necessary.

Optimization Techniques

Eager Loading

Loads related data in fewer queries.

Using Indexes

Creates indexes on frequently searched columns.

Optimized Queries for Laravel Projects

Analyzing Query Performance

Uses tools like Laravel Debugbar to analyze queries.

Caching

Caches frequently accessed data to reduce database load.