



WHY ?

- Simplify development
- No XML mapping Definitions
- No code generation
- No macro hacks



ORM (OBJECT RELATIONAL MAPPING)

```
class student
{
    public: string name, roll_no;
};
```

name	roll_no
Gauravjeet Singh	1012
Amitoj Singh	1004

Mapping fields

```
namespace dbo = Wt::Dbo;

class student
{
    public: std::string name, roll_no;
    template<class Action>
    void persist(Action &a)
    {
        dbo::field(a, name, "name");
        dbo::field(a, roll_no, "roll_no");
    }
};
```

Mapping Class

```
// Create a backend
dbo::backend::Sqlite3 sqlite("student.db");

//Create a session
dbo::Session session;
session.setConnection(sqlite);

//map class
session.mapClass<student>("student");

//create the schema
session.createTables();

create table student(
    id      integer primary key autoincrement,
    version integer not null,
    name    text     not null,
    roll_no text     not null
)
```



Inserting Object

```
// Start a Transaction
dbo::Transaction t1(session);

student *gaurav = new student();
gaurav->name = "Gauravjeet Singh";
gaurav->roll_no = "1010 N3L";

dbo::ptr<student> gauravPtr = session.add(gaurav);

// Ends a Transaction
t1.commit();
```

```
Insert into student(version, name, roll_no)
Values(?, ?, ?)
```

Modifying Object

```
// Start a Transaction
dbo::Transaction t1(session);

dbo::ptr<student> gauravPtr = session.find<student>
("where roll_no = ?").bind("1010 N3L");

gauravPtr.modify()->roll_no = "1012 N3L";

// Ends a Transaction
t1.commit();
```

```
select id, version, "name", "roll_no" from "student"
  where (roll_no = ?)

update "student" set "version" = ?, "name" = ?, "roll_no" = ?
  where "id" = ? and "version" = ?
```

ANY QUERIES ?

