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Yêu cầu của LV.Db.Common:

Lưu ý: Thư viện này chỉ hỗ trợ Database first, không hỗ trợ code first, về multi tenancy chỉ hỗ trợ dạng Database không hỗ trợ dạng schema vì MySQL mỗi database là một schema.

1. SQL parser:
   1. Parse Lambda Expression into SQL statement with parameter:

Ví dụ:

|  |
| --- |
| Query.From<Employee>("employee").Select(p => new {  full\_name = p.fisrt\_name + " "+p.last\_name,  p.gender,  p.birth\_date  }); |

Sẽ được convert tương ứng như sau:

Với MySQL:

|  |
| --- |
| Select `employee`.`fisrt\_name`+ @p1 +`employee`.`last\_name` as `full\_name`,  `employee`.`gender`,  `employee`.`birt\_date`  From `employee` |

Với PostgreSQL:

|  |
| --- |
| Select  “employee”.”fisrt\_name”+ :p1 +”employee”.”last\_name” as “full\_name”,  “employee”.”gender”,  “employee”.”birt\_date”  From “employee” |

Với MS sql server:

|  |
| --- |
| Select [employee].[fisrt\_name]+ @p1 +[employee].[last\_name] as [full\_name],  [employee].[gender],  [employee].[birth\_date] |

* 1. Join multi tables:
     1. Join 2 tables:

Ví dụ:

|  |
| --- |
| var qr1 = Query.From<Department>("department");  var qr2 = Query.From<Employee>("employee");  var qr = Query.InnertJoin(qr1, qr2, (emp, dep) => emp.department\_code == dep.code, (emp, dep) => new { }); |

Sẽ được convert tương ứng như sau:

Với MySQL:

|  |
| --- |
| select \*.\*  from `employee` as `t1` inner join `department` as `t2`  on `t1`.`department\_code`=`t2`.`code`  Với PostgreSQL:  select \*.\*  from “employee” as “t1” inner join “department” as “t2”  on “t1”.”department\_code”==”t2”.”code” |

Với SQL server:

|  |
| --- |
| Select \*.\*  from [employee] as [t1] inner join [department] as [t2]  on [t1].[department\_code]=[t2].[code] |

* 1. Join more than 2 tables:

Ví dụ:

|  |
| --- |
| var qrDep = Query.From<Department>("department");  var qrEmp = Query.From<Employee>("employee");  var qrPostion = Query.From<Position>("position");  var qrEmpAndDept = Query.InnertJoin(qrDep, qrEmp, (emp, dep) => emp.department\_code == dep.code , (emp, dep) => new  {  emp,  dep  });  var qrResult = Query.InnertJoin(qrEmpAndDept, qrPostion, (p, q) => p.emp.position\_code == q.code, (p, q) => new { }); |

Sẽ được convert tương ứng như sau:

….

* 1. Cross join:
  2. Union
  3. Union all
  4. Group by
  5. Filter:
  6. Having
  7. Call Built-In function
  8. Call user defined function

1. Data Manipulation Language parser:
   1. Insert
   2. Update
   3. Delete
   4. Insert into from another query
   5. Update from another query
2. Transaction: