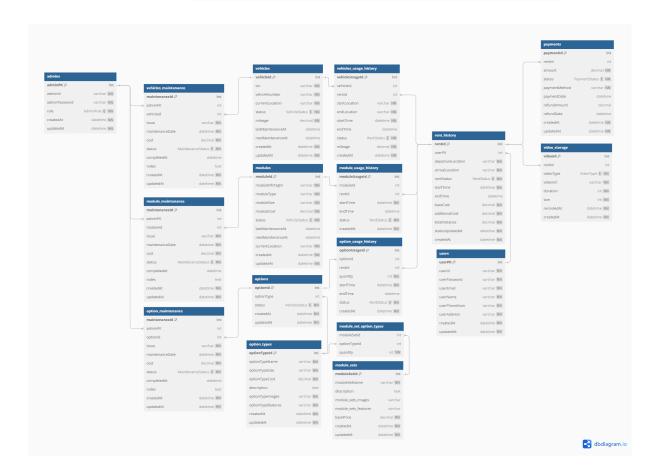


: 선택

업데이트 v5 updated 2025.01.22 21:39



변경사항 : module set options → module set option types 연동

```
// Enums
Enum UserStatus {
  active
  inactive
```

```
suspended
}
Enum VehicleStatus {
 active
 inactive
 maintenance
}
Enum RentStatus {
 reserved
 in_progress
 completed
 canceled
}
Enum MaintenanceStatus {
 pending
 in_progress
 completed
}
Enum AdminRole {
 master
 semi
}
Enum VideoType {
 module_installation
 autonomous_driving
}
Enum PaymentStatus {
 pending
 completed
 failed
 refunded
}
```

```
// Users & Authentication
Table users {
 userPK int [pk, increment]
 userId varchar [unique, not null]
 userPassword varchar [not null, note: 'encrypted']
 userEmail varchar [unique, not null]
 userName varchar [not null]
 userPhoneNum varchar [not null]
 userAddress varchar [not null]
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  userId
  userEmail
  userPhoneNum
 }
}
Table admins {
 adminPK int [pk, increment]
 adminId varchar [unique, not null]
 adminPassword varchar [not null, note: 'encrypted']
 role AdminRole [not null]
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  adminId
  role
 }
}
// Vehicles
Table vehicles {
 vehicleId int [pk, increment]
```

```
vin varchar [unique, not null]
 vehicleNumber varchar [unique, not null]
 currentLocation varchar [not null]
 status VehicleStatus [not null, default: 'inactive']
 mileage decimal [not null, default: 0]
 lastMaintenanceAt datetime
 nextMaintenanceAt datetime
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  vin
  vehicleNumber
  status
 }
}
Table vehicles_maintenance {
 maintenanceld int [pk, increment]
 adminPK int [ref: > admins.adminPK]
 vehicleId int [ref: > vehicles.vehicleId]
 issue varchar [not null]
 maintenanceDate datetime [not null]
 cost decimal [not null, note: "cost >= 0"]
 status MaintenanceStatus [not null]
 completedAt datetime
 notes text
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  vehicleId
  status
  maintenanceDate
 }
}
// Modules & Options
```

```
Table modules {
 moduleId int [pk, increment]
 moduleNfcTaqld varchar [unique, not null]
 moduleType varchar [not null]
 moduleSize varchar [not null]
 moduleCost decimal [not null, note: "moduleCost >= 0"]
 status VehicleStatus [not null]
 lastMaintenanceAt datetime
 nextMaintenanceAt datetime
 currentLocation varchar [not null]
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  moduleNfcTagld
  status
 }
}
Table options {
 optionId int [pk, increment]
 optionType int [ref: > option_types.optionTypeId]
 status VehicleStatus [not null]
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  status
 }
}
Table option_types {
 optionTypeId int [pk, increment]
 optionTypeName varchar [not null]
 optionTypeSize varchar [not null]
 optionTypeCost decimal [not null, note: "optionCost >= 0"]
 description text
 optionTypeimages varchar [not null]
```

```
optionTypefeatures varchar [not null]
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  optionTypeName
 }
}
Table module_sets {
 moduleSetId int [pk, increment]
 moduleSetName varchar [not null]
 description text
 module_sets_images varchar
 module_sets_features varchar
 basePrice decimal [not null, note: "basePrice >= 0"]
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  moduleSetName
 }
}
Table module_set_option_types {
 moduleSetId int [ref: > module_sets.moduleSetId]
 optionTypeId int [ref: > option_types.optionTypeId]
 quantity int [not null, note: "quantity > 0"]
 indexes {
  (moduleSetId, optionTypeId)
 }
}
// Maintenance
Table module_maintenance {
 maintenanceld int [pk, increment]
```

```
adminPK int [ref: > admins.adminPK]
 moduleId int [ref: > modules.moduleId]
 issue varchar [not null]
 maintenanceDate datetime [not null]
 cost decimal [not null, note: "cost >= 0"]
 status MaintenanceStatus [not null]
 completedAt datetime
 notes text
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  moduleId
  status
  maintenanceDate
 }
}
Table option_maintenance {
 maintenanceld int [pk, increment]
 adminPK int [ref: > admins.adminPK]
 optionId int [ref: > options.optionId]
 issue varchar [not null]
 maintenanceDate datetime [not null]
 cost decimal [not null, note: "cost >= 0"]
 status MaintenanceStatus [not null]
 completedAt datetime
 notes text
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  optionId
  status
  maintenanceDate
 }
}
```

```
// Rental & Usage
Table rent_history {
 rentld int [pk, increment]
 userPK int [ref: > users.userPK]
 departureLocation varchar [not null]
 arrivalLocation varchar [not null]
 rentStatus RentStatus [not null]
 startTime datetime [not null]
 endTime datetime
 baseCost decimal [not null, note: "baseCost >= 0"]
 additionalCost decimal [not null, default: 0, note: "additionalCost >= 0"]
 totalDistance decimal [not null, default: 0, note: "totalDistance >= 0"]
 statusUpdatedAt datetime [not null]
 createdAt datetime [not null, default: `now()`]
 indexes {
  userPK
  rentStatus
  startTime
  endTime
 }
}
// Payment
Table payments {
 paymentId int [pk, increment]
 rentld int [ref: > rent_history.rentld]
 amount decimal [not null, note: "amount > 0"]
 status PaymentStatus [not null]
 paymentMethod varchar [not null]
 paymentDate datetime
 refundAmount decimal [note: "refundAmount >= 0"]
 refundDate datetime
 createdAt datetime [not null, default: `now()`]
 updatedAt datetime [not null]
 indexes {
  rentId
```

```
status
  paymentDate
 }
}
// Usage History
Table vehicles_usage_history {
 vehicleUsageId int [pk, increment]
 vehicleId int [ref: > vehicles.vehicleId]
 rentld int [ref: > rent_history.rentld]
 startLocation varchar [not null]
 endLocation varchar [not null]
 startTime datetime [not null]
 endTime datetime
 status RentStatus [not null]
 mileage decimal [not null, note: "mileage >= 0"]
 createdAt datetime [not null, default: `now()`]
 indexes {
  vehicleId
  rentId
  status
  startTime
  endTime
 }
}
Table module_usage_history {
 moduleUsageId int [pk, increment]
 moduleId int [ref: > modules.moduleId]
 rentld int [ref: > rent_history.rentld]
 startTime datetime [not null]
 endTime datetime
 status RentStatus [not null]
 createdAt datetime [not null, default: `now()`]
 indexes {
  moduleId
```

```
rentId
  status
  startTime
  endTime
 }
}
Table option_usage_history {
 optionUsageId int [pk, increment]
 optionId int [ref: > options.optionId]
 rentId int [ref: > rent_history.rentId]
 quantity int [not null, note: "quantity > 0"]
 startTime datetime [not null]
 endTime datetime
 status RentStatus [not null]
 createdAt datetime [not null, default: `now()`]
 indexes {
  optionId
  rentId
  status
  startTime
  endTime
 }
}
// Video Storage
Table video_storage {
 videold int [pk, increment]
 rentld int [ref: > rent_history.rentld]
 videoType VideoType [not null]
 videoUrl varchar [not null]
 duration int [not null, note: "duration > 0"]
 size int [not null, note: "size > 0"]
 recordedAt datetime [not null]
 createdAt datetime [not null, default: `now()`]
 indexes {
```

```
rentId
videoType
recordedAt
}
```