|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **DATABASE** | JewelryboxDB | | | **SCHEMA** | | public | | **TABLE** | Mapping | |
| **SEQUENCE** | Mapping\_id\_seq | | | | | | **COMMENT** | 途徑 | | |
| **COLUMN** | | | **TYPE** | | **NULLABLE** | **DEFAULT** | **INDEX** | **REFERENCES** | | **COMMENT** |
| id | | | serial2 | |  |  | PRIMARY KEY |  | | 主鍵(16位元) |
| accordion | | | int2 | | NOT NULL |  |  | Accordion | | 外鍵:手風琴 |
| sort | | | int2 | |  |  |  |  | | 排序 |
| title | | | varchar | |  |  |  |  | | 標題 |
| uri | | | varchar | | NOT NULL |  |  |  | | 路徑 |
| method | | | int2 | |  |  |  | Method | | 外鍵:方式 |
| pattern | | | varchar | | NOT NULL |  |  |  | | 規則 |
| description | | | text | | NOT NULL |  |  |  | | 描述 |
| **Unique Constraint** | | UNIQUE("accordion","sort") | | | | | | | | |
| **Unique Constraint** | | UNIQUE("uri","method") | | | | | | | | |

**D**ata **D**efinition **L**anguage:

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| --- |
| CREATE SEQUENCE"Mapping\_id\_seq"MAXVALUE 32767 CYCLE;  CREATE TABLE"Mapping"(  "id"int2 DEFAULT"nextval"('"Mapping\_id\_seq"'::"regclass")PRIMARY KEY,  "accordion"int2 REFERENCES"Accordion"("id")ON DELETE RESTRICT ON UPDATE CASCADE,  "sort"int2,  "title"varchar,  "uri"varchar,  "method"int2 NOT NULL REFERENCES"Method"("id")ON DELETE RESTRICT ON UPDATE CASCADE,  "pattern"varchar NOT NULL,  "description"text NOT NULL,  UNIQUE("accordion","sort"),  UNIQUE("uri","method")  );  ALTER SEQUENCE"Mapping\_id\_seq"OWNED BY"Mapping"."id";  COMMENT ON COLUMN"Mapping"."id"IS'主鍵(長度16位元)';  COMMENT ON COLUMN"Mapping"."accordion"IS'外鍵:手風琴';  COMMENT ON COLUMN"Mapping"."sort"IS'排序';  COMMENT ON COLUMN"Mapping"."title"IS'標題';  COMMENT ON COLUMN"Mapping"."uri"IS'路徑';  COMMENT ON COLUMN"Mapping"."method"IS'外鍵:方式';  COMMENT ON COLUMN"Mapping"."pattern"IS'規則';  COMMENT ON COLUMN"Mapping"."description"IS'描述';  COMMENT ON TABLE"Mapping"IS'途徑'; |

**D**ata **M**anipulation **L**anguage:

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| --- |
| INSERT INTO"Mapping"("accordion","sort","title","uri","method","pattern","description")VALUES  (NULL,'1',E'後臺',E'/','2',E'^\\/$',E'後臺的首頁'),  -- 權限  ('3','1',E'管理者一覽',E'/agent/','2',E'^\\/agent\\/$',E'管理者列表'),  ('3',NULL,E'{管理者}',NULL,'2',E'^\\/agent\\/(\\d)+\\.asp$',E'某管理者的權限列表'),  ('3',NULL,NULL,NULL,'3',E'^\\/agent\\/(\\d)+\\/mapping\\/(\\d)+\\.json$',E'賦予或撤除某管理者的權限'),  ('3','2',E'手風琴一覽',E'/accordion/','2',E'^\\/accordion\\/$',E'手風琴列表'),  ('3','3',E'手風琴 &#187; 新增',E'/accordion/add.asp','2',E'^\\/accordion\\/add\\.asp$',E'新增手風琴頁面'),  ('3',NUll,E'手風琴 &#187; 新增',NULL,'3',E'^\\/accordion\\/add\\.asp$',E'新增手風琴作業'),  ('3',NULL,E'{手風琴}',NULL,'2',E'^\\/accordion\\/(\\d)+\\.asp$',E'修改手風琴頁面'),  ('3',NULL,E'{手風琴}',NULL,'3',E'^\\/accordion\\/(\\d)+\\.asp$',E'修改手風琴作業'),  ('3','4',E'{手風琴} &#187; 途徑一覽',NULL,'2',E'^\\/accordion\\/(\\d)+\\/mapping\\/$',E'途徑列表'),  ('3','5',E'途徑 &#187; 新增',E'/mapping/add.asp','2',E'^\\/mapping\\/add\\.asp$',E'新增途徑頁面'),  ('3',NULL,E'途徑 &#187; 新增',NULL,'3',E'^\\/mapping\\/add\\.asp$',E'新增途徑作業'),  ('3',NULL,E'{途徑}',NULL,'2',E'^\\/mapping\\/(\\d)+\\.asp$',E'修改途徑頁面'),  ('3',NULL,E'{途徑}',NULL,'3',E'^\\/mapping\\/(\\d)+\\.asp$',E'修改途徑作業'); |

Change Log:

1. 增加"sort"(排序)欄位及相對應的UNIQUE("accordion","sort")。
2. 增加"description"(描述)欄位。
3. 增加"pattern"(規則)欄位。

Applications:

* **後臺**的程式途徑(連結)及規則(regular expression)。
* 不可有相同的"uri"(路徑)及"method"(外鍵:方式)組合，每種組合應視為不同的途徑。
* **後臺的首頁**之"accordion"(外鍵：手風琴)、"sort"(排序)為NULL。
* 需要出現在選單者其"accordion"(外鍵：手風琴)不為NULL，"sort"(排序)不得為NULL、須大於零且不可重覆，"title"(標題)及"uri"(路徑)亦不得為NULL，且"method"(方式)須為'GET'；如**上層列表**、新增**頁面**等。
* 不需出現在選單者其"accordion"(外鍵：手風琴)、"sort"(排序)為NULL；如：修改**頁面**，新增、修改**作業**，AJAX存取等。