# Servers

## Servers ①

🖥 Local_Development

# 🖥 Local_Development

## Databases ②

🛢 data_db
🛢 static_db

## Users ③

🔐 dataCollector@%
🔐 databaseManager@%
🔐 reportGenerator@%

## Properties

| Name | Value |
|---|---|
| Product | MySQL |
| Version | 8.3.0 |
| Version Comment | MySQL Community Server - GPL |
| Collation | utf8mb4_0900_ai_ci |

# 📁 Databases

## Databases ②

🛢 data_db
🛢 static_db

# data_db

## Properties

| Name | Value | |
|------|-------|---|
| Collation | utf8mb4_0900_ai_ci | Created: 18/06/2024 |

## Object Types 4

Tables
Procedures
Functions
Triggers

# 📂 Tables

## Objects ③

| Name | Description | |
| --- | --- | --- |
| data | Data Recollected from PLC | |
| sample | Test Sample information | |
| specimen | Test specimen | |

| Name | Description |
| --- | --- |

# ⊞ data

## Description

Data Recollected from PLC

## Properties

| Name | Value |
|------|-------|
| Engine | InnoDB |
| Auto Increment | 782365 |
| Average Row Length | 58 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | **False** |
| Page Checksum | **True** |
| Pack Keys | **False** |
| Delay Key Write | **False** |
| Is Partitioned | **False** |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|-----|------|-----------|--------|-----------|-------|----------|----------|--------|----------|----------------|---------|---------|-----------|-------------|
| 🔑🖧 | id | INT | | 11 | | **True** | **False** | **False** | **True** | **True** | | **False** | **False** | |
| 🔑🖧 | specimen | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | pressure | DOUBLE | 0 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | temperature | DOUBLE | 0 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | createdAt | DATETIME | | 4 | | **False** | **False** | **False** | **False** | **False** | CURRENT_TIMESTAMP(4) | **False** | **False** | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|-----|------|---------|--------|------|-------------|
| 🔑 | | id | **True** | None | 0 |
| | IDX_test_data_test_specimen | specimen | **False** | None | 0 |

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|------|---------|-------------|-------------|

| FK_test_data_test_specimen_id | id | N/S | N/S |
| --- | --- | --- | --- |

## SQL Script

```sql
CREATE TABLE data (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  specimen int UNSIGNED NOT NULL,
  pressure double NOT NULL,
  temperature double NOT NULL,
  createdAt datetime(4) DEFAULT CURRENT_TIMESTAMP(4),
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 58,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Data Recollected from PLC';

ALTER TABLE data
ADD INDEX IDX_test_data_test_specimen (specimen);

ALTER TABLE data
ADD CONSTRAINT FK_test_data_test_specimen_id FOREIGN KEY (specimen)
REFERENCES specimen (id);
```

## Depends On ①

specimen

## Used By ⑥

getSpecimenData

insertData

selectTestData

selectTestData

selectTestLimit

DeleteTest

# ⊞ sample

## Description

Test Sample information

## Properties

| Name | Value |
|---|---|
| Engine | InnoDB |
| Auto Increment | 50 |
| Average Row Length | 16384 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | **False** |
| Page Checksum | **True** |
| Pack Keys | **False** |
| Delay Key Write | **False** |
| Is Partitioned | **False** |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 🔑 | id | INT | | 11 | | **True** | **False** | **False** | **True** | **True** | | **False** | **False** | |
| | standard | VARCHAR | 25 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | material | VARCHAR | 10 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | specification | VARCHAR | 10 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | diamreal | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | diamnom | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | wallthick | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | lentotal | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | lenfree | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | targettemp | INT | | 11 | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | targetpressure | INT | | 11 | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | condPeriod | VARCHAR | 15 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | createdAt | DATETIME | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** |
| | updatedAt | DATETIME | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|---|---|---|---|---|---|
| 🔑 | | id | **True** | None | 0 |

## Triggers

| Name | Type | Event | Security | Definer |
|---|---|---|---|---|
| NewSample | BEFORE | INSERT | Definer | root |

## SQL Script

```sql
CREATE TABLE sample (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  standard varchar(25) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  material varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  specification varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  diamreal int UNSIGNED NOT NULL,
  diamnom int UNSIGNED NOT NULL,
  wallthick int UNSIGNED NOT NULL,
  lentotal int UNSIGNED NOT NULL,
  lenfree int UNSIGNED NOT NULL,
  targettemp int NOT NULL,
  targetpressure int NOT NULL,
  condPeriod varchar(15) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 16384,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Test Sample information';
```

## Depends On

No items found

## Used By 12

- getSpecimenData
- insertSample
- insertSpecimen
- selectSampleID
- NewSample
- specimen
- selectCompareTests
- selectSample
- selectTest
- selectTests
- selectTestSample
- DeleteTestSample

# ▦ specimen

## Description

Test specimen

## Properties

| Name | Value |
|------|-------|
| Engine | InnoDB |
| Auto Increment | 136 |
| Average Row Length | 910 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | **False** |
| Page Checksum | **True** |
| Pack Keys | **False** |
| Delay Key Write | **False** |
| Is Partitioned | **False** |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|-----|------|-----------|--------|-----------|-------|----------|----------|--------|----------|----------------|---------|---------|-----------|-------------|
| 🔑 | id | INT | | 11 | | **True** | **False** | **False** | **True** | **True** | | **False** | **False** | |
| 🔑 | sample | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | operator | VARCHAR | 40 | | | **False** | **False** | **False** | **True** | **False** | 'STEL S.A.' | **False** | **False** | |
| | enviroment | VARCHAR | 20 | | | **False** | **False** | **False** | **False** | **False** | '' | **False** | **False** | |
| | testName | VARCHAR | 120 | | | **False** | **False** | **False** | **False** | **False** | '' | **False** | **False** | |
| | endCap | VARCHAR | 10 | | | **False** | **False** | **False** | **False** | **False** | '' | **False** | **False** | |
| | failText | VARCHAR | 200 | | | **False** | **False** | **False** | **True** | **False** | 'Sin Fallas' | **False** | **False** | |
| | remark | VARCHAR | 200 | | | **False** | **False** | **False** | **True** | **False** | 'Sin Observaciones' | **False** | **False** | |
| | createdAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |
| | updatedAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|-----|------|---------|--------|------|-------------|
| 🔑 | | id | **True** | None | 0 |
| | FK_test_specimen_test_sample_id | sample | **False** | None | 0 |

## Triggers

| Name | Type | Event | Security | Definer |
|------|------|-------|----------|---------|
| DeleteTest | BEFORE | DELETE | Definer | root |
| DeleteTestSample | AFTER | DELETE | Definer | root |

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|------|---------|-------------|-------------|
| FK_test_specimen_test_sample_id | id | N/S | N/S |

## SQL Script

```
CREATE TABLE specimen (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  sample int UNSIGNED NOT NULL,
  operator varchar(40) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL DEFAULT 'STEL S.A.',
  enviroment varchar(20) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci DEFAULT '',
  testName varchar(120) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci DEFAULT '',
  endCap varchar(10) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci DEFAULT '',
  failText varchar(200) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL DEFAULT 'Sin Fallas',
  remark varchar(200) CHARACTER SET utf8mb4 COLLATE utf8mb4_unicode_ci NOT NULL DEFAULT 'Sin Observaciones',
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 910,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Test specimen';

ALTER TABLE specimen
ADD CONSTRAINT FK_test_specimen_test_sample_id FOREIGN KEY (sample)
REFERENCES sample (id);
```

## Depends On 1

⊞ sample

## Used By 17

- 📋 countSpecimens
- 📋 getSpecimenData
- 📋 insertData
- 📋 insertSpecimen
- ⊞ data
- ⚡ DeleteTest
- ⚡ DeleteTestSample
- 📋 deleteTest
- 📋 selectCompareTests
- 📋 selectSpecimen
- 📋 selectTest
- 📋 updateSpecimen
- 🏃 countSpecimens
- 🏃 selectTestNumber
- 🏃 selectTestSpecimen
- 🏃 selectTestsSpecimens
- 🏃 specimenExists
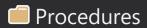
# 📁 Procedures

## Objects 14

| Name | Description |
| --- | --- |
| countSpecimens | Copyright © All Rights Reserved      Created: 18/06/2024 |
| deleteTest | |
| getSpecimenData | |
| insertData | |
| insertSample | |
| insertSpecimen | |
| selectCompareTests | |
| selectSample | |
| selectSampleID | |
| selectSpecimen | |
| selectTest | |
| selectTestData | |
| selectTests | |
| updateSpecimen | |

| Name | Description |
| --- | --- |

# countSpecimens

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idSample | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE countSpecimens (IN idSample int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    COUNT(ts.sample) AS counts
  FROM specimen ts
  WHERE ts.sample = idSample;

END
```

## Depends On 2

🔒 dataCollector@%
▦ specimen

## Used By 1

𝑓ℵ selectTestSpecimen

# deleteTest

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **False** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteTest (IN idSpecimen int UNSIGNED)
BEGIN

  DELETE LOW_PRIORITY QUICK
    FROM specimen ts
  WHERE ts.id = idSpecimen;

END
```

## Depends On 1

specimen

## Used By

No items found

# getSpecimenData

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| mySpecimenID | INT | | 11 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE getSpecimenData (IN mySpecimenID int UNSIGNED)
DETERMINISTIC
BEGIN

  CREATE TEMPORARY TABLE IF NOT EXISTS myResult AS (SELECT
      td.id,
      td.pressure,
      td.temperature,
      # td.createdAt,
      (TIMESTAMPDIFF(MICROSECOND, (SELECT
          td2.createdAt
        FROM data td2
        WHERE td2.specimen = mySpecimenID LIMIT 1), td.createdAt)) AS `difference`
    FROM data td
    WHERE td.specimen = mySpecimenID);

  SELECT
    ts.id AS `idTest`,
    (SELECT
        JSON_ARRAYAGG(JSON_OBJECT('id', r.id, 'pressure', r.pressure, 'temperature', r.temperature, 'timekey', r.difference))
      FROM myResult r) AS `testData`
  FROM specimen ts
    INNER JOIN sample ts1
      ON ts.sample = ts1.id
  WHERE ts.id = mySpecimenID;

  DROP TEMPORARY TABLE IF EXISTS myResult;

END
```

## Depends On  4

dataCollector@%

data

specimen

sample

## Used By

No items found

# 📠 insertData

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **False** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |
| pressure | DOUBLE | 0 | | |
| temperature | DOUBLE | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertData (IN idSpecimen int UNSIGNED, IN pressure double, IN temperature double)
BEGIN

  INSERT INTO data (specimen, pressure, temperature, createdAt)
    VALUES (idSpecimen, pressure, temperature, NOW());

END
```

## Depends On ③

🔒 dataCollector@%
📇 data
📇 specimen

## Used By

No items found

# insertSample

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| standard | VARCHAR | 25 | | |
| material | VARCHAR | 10 | | |
| specification | VARCHAR | 6 | | |
| diamnom | INT | | 11 | |
| diamreal | INT | | 11 | |
| wallthick | INT | | 11 | |
| lenfree | INT | | 11 | |
| lentotal | INT | | 11 | |
| targetpressure | INT | | 11 | |
| targettemp | INT | | 11 | |
| condPeriod | VARCHAR | 15 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE insertSample (IN standard varchar(25), IN material varchar(10), IN specification varchar(6), IN diamnom
int UNSIGNED, IN diamreal int UNSIGNED, IN wallthick int UNSIGNED, IN lenfree int UNSIGNED, IN lentotal int
UNSIGNED, IN targetpressure int, IN targettemp int, IN condPeriod varchar(15))
DETERMINISTIC
BEGIN

  DECLARE EXIT HANDLER FOR SQLEXCEPTION
  BEGIN

    GET DIAGNOSTICS CONDITION 1 @sqlstate = RETURNED_SQLSTATE, @message = MESSAGE_TEXT;
    SELECT
      @message AS `idSample`;

  END;
```

```sql
    INSERT INTO sample (standard, condPeriod, material, specification, targettemp, targetpressure, diamreal, diamnom,
    wallthick, lenfree, lentotal)
      VALUES (standard, condPeriod, material, specification, targettemp, targetpressure, diamreal, diamnom, wallthick
      , lenfree, lentotal);

    SELECT
      ts.id AS `idSample`
    FROM sample ts
    ORDER BY ts.id DESC
    LIMIT 1;

  END
```

## Depends On 2

🔒 dataCollector@%
▦ sample

## Used By

No items found

# insertSpecimen

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **False** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSample | INT | | 11 | |
| operatorName | VARCHAR | 40 | | |
| enviromentIn | VARCHAR | 20 | | |
| testNameIn | VARCHAR | 120 | | |
| endCapIn | VARCHAR | 10 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertSpecimen (IN idSample int UNSIGNED, IN operatorName varchar(40), IN enviromentIn varchar(20), IN
testNameIn varchar(120), IN endCapIn varchar(10))
BEGIN

  INSERT INTO specimen (sample, operator, enviroment, testName, endCap, createdAt, updatedAt)
    VALUES (idSample, operatorName, enviromentIn, testNameIn, endCapIn, CURRENT_TIMESTAMP(), CURRENT_TIMESTAMP());

  SELECT
    ts.id AS `idSpecimen`
  FROM specimen ts
  ORDER BY ts.id DESC
  LIMIT 1;

END
```

## Depends On ③

🔒 dataCollector@%
▦ specimen
▦ sample

## Used By

No items found

# 🖼 selectCompareTests

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| arraySpecimens | TEXT | | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectCompareTests (IN arraySpecimens text)
DETERMINISTIC
BEGIN

  SELECT
    (selectTestSample(sa.id)) AS 'mySample',
    (selectTestSpecimen(se.id)) AS 'mySpecimen',
    (selectTestData(se.id)) AS 'myData'
  FROM specimen se
    INNER JOIN sample sa
      ON se.sample = sa.id
  WHERE FIND_IN_SET(se.id, arraySpecimens) > 0;

  END
```

## Depends On ⑤

  𝑓𝕩 selectTestSample

  𝑓𝕩 selectTestSpecimen

  🖼 selectTestData

  ▦ specimen

  ▦ sample

## Used By

No items found

# selectSample

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idSample | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectSample (IN idSample int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    s.id AS `idSample`,
    s.standard AS `standard`,
    s.material AS `material`,
    s.specification AS `specification`,
    s.diamreal AS `diamreal`,
    s.diamnom AS `diamnom`,
    s.wallthick AS `wallthickness`,
    s.lenfree AS `lenfree`,
    s.lentotal AS `lentotal`,
    s.condPeriod AS `condPeriod`,
    s.targettemp AS `targettemp`,
    s.targetpressure AS `targetpressure`
  FROM sample s
  WHERE s.id = idSample;

  END
```

## Depends On ❶

🔲 sample

## Used By

No items found

# selectSampleID

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| standard | VARCHAR | 25 | | |
| material | VARCHAR | 10 | | |
| specification | VARCHAR | 6 | | |
| diamnom | INT | | 11 | |
| diamreal | INT | | 11 | |
| wallthick | INT | | 11 | |
| lenfree | INT | | 11 | |
| lentotal | INT | | 11 | |
| targetpressure | INT | | 11 | |
| targettemp | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectSampleID (IN standard varchar(25), IN material varchar(10), IN specification varchar(6), IN diamnom
int UNSIGNED, IN diamreal int UNSIGNED, IN wallthick int UNSIGNED, IN lenfree int UNSIGNED, IN lentotal int
UNSIGNED, IN targetpressure int, IN targettemp int)
DETERMINISTIC
BEGIN

  SELECT
    ts.id AS idSample
  FROM sample ts
  WHERE (ts.standard LIKE standard
  AND ts.material LIKE material
  AND ts.specification LIKE specification
  AND ts.diamreal = diamreal
  AND ts.diamnom = diamnom
  AND ts.wallthick = wallthick
  AND ts.lenfree = lenfree
```

```
    AND ts.lentotal = lentotal
    AND ts.targettemp = targettemp
    AND ts.targetpressure = targetpressure);

END
```

## Depends On ②

🔒 dataCollector@%
🎞 sample

## Used By

No items found

# selectSpecimen

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idSpecimen | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectSpecimen (IN idSpecimen int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    s.id AS `idSpecimen`,
    s.sample AS `idSample`,
    s.enviroment AS `enviroment`,
    s.testName AS `testName`,
    s.operator AS `operator`,
    s.endCap AS `endCap`
  FROM specimen s
  WHERE s.id = idSpecimen;

  END
```
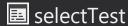
## Depends On ①

    specimen

## Used By

No items found

# selectTest

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectTest (IN idSpecimen int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    (selectTestSample(sa.id)) AS 'mySample',
    (selectTestSpecimen(se.id)) AS 'mySpecimen'
  FROM specimen se
    INNER JOIN sample sa
      ON se.sample = sa.id
  WHERE se.id = idSpecimen;

END
```

## Depends On 4

*fx* selectTestSample
*fx* selectTestSpecimen
specimen
sample

## Used By

No items found

# selectTestData

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectTestData (IN idSpecimen int UNSIGNED)
DETERMINISTIC
BEGIN

  SET @initTime = (SELECT
      td.createdAt
    FROM data td
    WHERE td.specimen = idSpecimen
    ORDER BY td.createdAt ASC LIMIT 1);

  WITH groupingData
  AS
  (SELECT
      td.createdAt,
      AVG(td.pressure) AS 'pressure',
      AVG(td.temperature) AS 'temperature'
    FROM data td
    WHERE td.specimen = idSpecimen
    GROUP BY td.createdAt)

  SELECT
    TIMESTAMPDIFF(SECOND, @initTime, gd.createdAt) AS 'key',
    gd.pressure AS 'pressure',
    gd.temperature AS 'temperature'
  FROM groupingData gd;

  END
```

## Depends On ❶

🗔 data

## Used By [1]

📄 selectCompareTests

# selectTests

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectTests ()
DETERMINISTIC
BEGIN

  SELECT
    ts.id AS idSample,
    ts.standard AS standard,
    ts.material AS material,
    selectTestsSpecimens(ts.id) AS mySpecimens
  FROM sample ts;

END
```

## Depends On 2

𝑓ℵ selectTestsSpecimens
⊞ sample

## Used By

No items found

# 🖼 updateSpecimen

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **False** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |
| testName | VARCHAR | 150 | | |
| operator | VARCHAR | 40 | | |
| fail | VARCHAR | 255 | | |
| remark | VARCHAR | 255 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE updateSpecimen (IN idSpecimen int UNSIGNED, IN testName varchar(150), IN operator varchar(40), IN fail
varchar(255), IN remark varchar(255))
BEGIN

  UPDATE LOW_PRIORITY specimen ts
  SET ts.testName = testName,
      ts.operator = operator,
      ts.failText = fail,
      ts.remark = remark,
      ts.updatedAt = CURRENT_TIMESTAMP()
  WHERE ts.id = idSpecimen;

  END
```
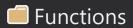
## Depends On ①

🖽 specimen

## Used By

No items found

# 📁 Functions

## Objects 8

| Name | Description |
|---|---|
| countSpecimens | Copyright © All Rights Reserved                                              Created: 18/06/2024 |
| selectTestData | |
| selectTestLimit | |
| selectTestNumber | |
| selectTestSample | |
| selectTestSpecimen | |
| selectTestsSpecimens | |
| specimenExists | |

# ℬ countSpecimens

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |
| (Result) | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION countSpecimens (idSpecimen int UNSIGNED)
RETURNS int(11) UNSIGNED
DETERMINISTIC
BEGIN

  SET @count = 0;

  SELECT
    COUNT(*) INTO @count
  FROM specimen ts
  WHERE ts.sample = (SELECT
      se.sample
    FROM specimen se
    WHERE se.id = idSpecimen)
  GROUP BY ts.sample;

  RETURN @count;
END
```

## Depends On ①

⊞ specimen

## Used By

No items found

# 𝕱 selectTestData

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idSpecimen | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectTestData (idSpecimen int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  SET @returnData = NULL;

  SET @initTime = (SELECT
      td.createdAt
    FROM data td
    WHERE td.specimen = idSpecimen
    ORDER BY td.createdAt ASC LIMIT 1);

  WITH groupingData
  AS
  (SELECT
      td.createdAt,
      AVG(td.pressure) AS 'pressure',
      AVG(td.temperature) AS 'temperature'
    FROM data td
    WHERE td.specimen = idSpecimen
    GROUP BY td.createdAt)

  SELECT
    JSON_ARRAYAGG(JSON_OBJECT('key',
    TIMESTAMPDIFF(SECOND, @initTime, gd.createdAt),
    'pressure',
    gd.pressure,
    'temperature',
    gd.temperature)) INTO @returnData
  FROM groupingData gd;

    RETURN @returnData;
```

```
    END
```

## Depends On ❶

⊞ data

## Used By

No items found

# 🐾 selectTestLimit

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |
| isASC | TINYINT | | 4 | |
| (Result) | DATETIME | | 0 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
FUNCTION selectTestLimit (idSpecimen int UNSIGNED, isASC tinyint UNSIGNED)
RETURNS datetime
DETERMINISTIC
BEGIN

  SET @Time = NULL;

  IF isASC = 0 THEN
    SELECT
      td.createdAt INTO @Time
    FROM data td
    WHERE td.specimen = idSpecimen
    ORDER BY td.createdAt ASC LIMIT 1;
  ELSE
    SELECT
      td.createdAt INTO @Time
    FROM data td
    WHERE td.specimen = idSpecimen
    ORDER BY td.createdAt DESC LIMIT 1;
  END IF;

  RETURN @Time;
END
```
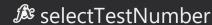
## 🐾 Depends On ①

⊞ data

## Used By ②

$f_x$ selectTestSpecimen

$f_x$ selectTestsSpecimens

# 𝓯𝔁 selectTestNumber

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |
| (Result) | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectTestNumber (idSpecimen int UNSIGNED)
RETURNS int(11) UNSIGNED
DETERMINISTIC
BEGIN
  SET @testNumber = 0;

  SET @sampleID = (SELECT
      ts.sample
    FROM specimen ts
    WHERE ts.id = idSpecimen);

  SELECT
    COUNT(*) INTO @testNumber
  FROM specimen ts
  WHERE ts.id <= idSpecimen
  AND ts.sample = @sampleID
  GROUP BY ts.sample;

  RETURN @testNumber;
END
```

## Depends On ❶

🗎 specimen

## Used By ❷

𝓯𝔁 selectTestSpecimen
𝓯𝔁 selectTestsSpecimens

# 𝓯𝔁 selectTestSample

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idSample | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectTestSample (idSample int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  SET @result = NULL;

  SELECT
    JSON_OBJECT('idSample',
    sa.id,
    'standard',
    sa.standard,
    'material',
    sa.material,
    'specification',
    sa.specification,
    'diameterReal',
    sa.diamreal,
    'diameterNominal',
    sa.diamnom,
    'wallThickness',
    sa.wallthick,
    'lengthTotal',
    sa.lentotal,
    'lengthFree',
    sa.lenfree,
    'targetTemperature',
    sa.targettemp,
    'targetPressure',
    sa.targetpressure,
    'hoopStress',
    ((sa.targettemp * (sa.diamreal - sa.wallthick)) / (10 * 2 * sa.wallthick)),
    'conditionalPeriod',
```

```
        sa.condPeriod) INTO @result
    FROM sample sa
    WHERE sa.id = idSample;

    RETURN @result;
END
```

## Depends On ①

⊞ sample

## Used By ②

▦ selectCompareTests
▦ selectTest

# 𝓯𝓧 selectTestSpecimen

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecimen | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
FUNCTION selectTestSpecimen (idSpecimen int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  SET @result = NULL;

  SET @countSpecimens = countSpecimens(idSpecimen);

  SET @beginTime = selectTestLimit(idSpecimen, 0);

  SET @endTime = selectTestLimit(idSpecimen, 1);

  SET @testNumber = selectTestNumber(idSpecimen);

  SELECT
    JSON_OBJECT('idSpecimen',
    se.id,
    'operator',
    se.operator,
    'enviroment',
    se.enviroment,
    'beginTime',
    DATE_FORMAT(@beginTime,
    '%d/%m/%Y %H:%i:%s'),
    'endTime',
    DATE_FORMAT(@endTime,
    '%d/%m/%Y %H:%i:%s'),
    'duration',
    DATE_FORMAT(TIMEDIFF(@endTime,
    @beginTime),
    '%H:%i:%s'),
    'counts',
```
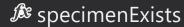
```sql
        @countSpecimens,
        'testNumber',
        @testNumber,
        'testName',
        se.testName,
        'endCap',
        se.endCap,
        'fail',
        se.failText,
        'remark',
        se.remark) INTO @result
    FROM specimen se
    WHERE se.id = idSpecimen;

    RETURN @result;
END
```

## Depends On ④

 📑 countSpecimens
 𝑓ₓ selectTestLimit
 𝑓ₓ selectTestNumber
 ▦ specimen

## Used By ②

 📑 selectCompareTests
 📑 selectTest

# 🐾 selectTestsSpecimens

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSample | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectTestsSpecimens (idSample int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN
  SET @myResult = NULL;

  WITH preResults
  AS
  (SELECT
      ts.id,
      ts.operator,
      selectTestNumber(ts.id) AS testNumber,
      (selectTestLimit(ts.id, 0)) AS beginTime,
      (selectTestLimit(ts.id, 1)) AS endTime
    FROM specimen ts
    WHERE ts.sample = idSample)

  (SELECT
      JSON_ARRAYAGG(JSON_OBJECT('idSpecimen', pr.id,
      'operator', pr.operator, 'testNumber', pr.testNumber, 'beginTime', DATE_FORMAT(pr.beginTime, '%d/%m/%Y
%H:%i:%s'), 'endTime', DATE_FORMAT(pr.endTime, '%d/%m/%Y %H:%
      i:%s'), 'duration', DATE_FORMAT(
      TIMEDIFF(pr.endTime, pr.beginTime), '%H:%i:%s'))) INTO @myResult
    FROM preResults pr
    ORDER BY pr.id DESC);

  RETURN @myResult;
END
```

## Depends On ③

🐾

- *fx* selectTestNumber
- *fx* selectTestLimit
- ▦ specimen

## Used By ①

- 🖹 selectTests

# 𝒇𝒙 specimenExists

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:05:27 |
| Last Modified | 11/6/2024 11:05:27 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSample | INT | | 11 | |
| start | VARBINARY | 255 | | |
| (Result) | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION specimenExists (idSample int UNSIGNED, start varbinary(255))
RETURNS int(11) UNSIGNED
DETERMINISTIC
BEGIN

  DECLARE idSpecimen boolean;

  SELECT
    ts.id INTO idSpecimen
  FROM specimen ts
  WHERE (ts.sample = idSample
  AND ts.start = start)
  LIMIT 1;

  RETURN idSpecimen;
END
```

## Depends On ①

🔲 specimen

## Used By

No items found

# 📂 Triggers

## Objects ③

| Name |
| --- |
| DeleteTest |
| DeleteTestSample |
| NewSample |

# ⚡ DeleteTest

## Properties

| Name | Value |
|------|-------|
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Event | DELETE |
| Timing | BEFORE |
| Follows | |
| Precedes | |
| Created | 11/6/2024 11:05:48 |

## SQL Script

```
CREATE
DEFINER = 'root'
TRIGGER DeleteTest
BEFORE DELETE
ON specimen
FOR EACH ROW
BEGIN

  DELETE LOW_PRIORITY QUICK
    FROM data td
  WHERE td.specimen = OLD.id;

END
```

## Depends On ②

⊞ specimen
⊞ data

## Used By

No items found

# DeleteTestSample

## Properties

| Name | Value |
|------|-------|
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Event | DELETE |
| Timing | AFTER |
| Follows | |
| Precedes | |
| Created | 11/6/2024 11:05:48 |

## SQL Script

```sql
CREATE
DEFINER = 'root'
TRIGGER DeleteTestSample
AFTER DELETE
ON specimen
FOR EACH ROW
BEGIN

  SET @countTests = 0;

  SELECT
    COUNT(*) INTO @countTests
  FROM specimen ts
  WHERE ts.sample = OLD.sample;

  IF @countTests < 1 THEN

    DELETE LOW_PRIORITY QUICK
      FROM sample
    WHERE sample.id = OLD.sample;

  END IF;

END
```

## Depends On ②

🔲 specimen
🔲 sample

## Used By

No items found

# ⚡ NewSample

## Properties

| Name | Value |
| --- | --- |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Event | INSERT |
| Timing | BEFORE |
| Follows | |
| Precedes | |
| Created | 11/6/2024 11:05:48 |

## SQL Script

```
CREATE
DEFINER = 'root'
TRIGGER NewSample
BEFORE INSERT
ON sample
FOR EACH ROW
BEGIN

  DECLARE row_id int UNSIGNED;

  SELECT
    s.id INTO row_id
  FROM sample s
  WHERE s.standard LIKE NEW.standard
  AND s.material LIKE NEW.material
  AND s.specification LIKE NEW.specification
  AND s.diamreal = NEW.diamreal
  AND s.diamnom = NEW.diamnom
  AND s.lentotal = NEW.lentotal
  AND s.lenfree = NEW.lenfree
  AND s.wallthick = NEW.wallthick
  AND s.targettemp = new.targettemp
  AND s.targetpressure = NEW.targetpressure;

  IF row_id IS NOT NULL THEN
    SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT = row_id;
  END IF;

END
```

## Depends On ❶

⊞ sample

## Used By

No items found

# ⬒ static_db

## Properties

| Name | Value | |
|------|-------|---|
| Collation | utf8mb4_0900_ai_ci | Created: 18/06/2024 |

## Object Types ④

- ▦ Tables
- ▤ Procedures
- ƒ𝓍 Functions
- ⚡ Triggers

# 📁 Tables

## Objects 10

| Name | Description |
| --- | --- |
| conditional_period | Conditional Period related to Standard |
| endcap | |
| enviroment | Enviroments |
| material | Material of Hoop |
| material_has_standard | |
| operator | |
| specification | Specification of material |
| specification_configuration | Conditional period by Specification |
| standard | Standards: ISO, IRAM, ... |
| test_type | |

# 🈁 conditional_period

## Description

Conditional Period related to Standard

## Properties

| Name | Value |
| --- | --- |
| Engine | InnoDB |
| Auto Increment | 6 |
| Average Row Length | 3276 |
| Charset | utf8mb4 |
| Collation | utf8mb4_unicode_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 🔑🖧 | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| 🔑🖧 | standard | INT | | 11 | | True | False | False | True | False | | False | False | |
| | time | VARCHAR | 20 | | | False | False | False | True | False | | False | False | |
| | minwall | INT | | 11 | | True | False | False | True | False | | False | False | |
| | maxwall | INT | | 11 | | True | False | False | True | False | | False | False | |
| | createdAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |
| | updatedtAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
| --- | --- | --- | --- | --- | --- |
| 🔑 | | id | True | None | 0 |

| | FK_conditional_period_standard_id | | standard | **False** | None | 0 |
|---|---|---|---|---|---|---|

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|---|---|---|---|
| FK_conditional_period_standard_id | id | N/S | N/S |

## SQL Script

```
CREATE TABLE conditional_period (
    id int UNSIGNED NOT NULL AUTO_INCREMENT,
    standard int UNSIGNED NOT NULL,
    time varchar(20) NOT NULL,
    minwall int UNSIGNED NOT NULL,
    maxwall int UNSIGNED NOT NULL,
    createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
    updatedtAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 3276,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_unicode_ci,
COMMENT = 'Conditional Period related to Standard';

ALTER TABLE conditional_period
ADD CONSTRAINT FK_conditional_period_standard_id FOREIGN KEY (standard)
REFERENCES standard (id);
```

## Depends On ①

- standard

## Used By ⑦

- selectConditionalPeriods
- selectStandarsComplete
- deleteConditionalPeriod
- insertConditionalPeriod
- existConditionalPeriod
- selectConditionalPeriods_has_Standard
- deleteStandardChilds

# ⊞ endcap

## Description

## Properties

| Name | Value |
|---|---|
| Engine | InnoDB |
| Auto Increment | 5 |
| Average Row Length | 5461 |
| Charset | latin1 |
| Collation | latin1_swedish_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 🔑🖧 | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| 🔑🖧 | standard | INT | | 11 | | True | False | False | True | False | | False | False | |
| | name | VARCHAR | 15 | | | False | False | False | True | False | | False | False | |
| | createdAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |
| | updatedAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|---|---|---|---|---|---|
| 🔑 | | id | True | None | 0 |
| | FK_endcap_standard_id | standard | False | None | 0 |

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|---|---|---|---|
| FK_endcap_standard_id | id | N/S | N/S |

## SQL Script

```sql
CREATE TABLE endcap (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  standard int UNSIGNED NOT NULL,
  name varchar(15) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 5461,
CHARACTER SET latin1,
COLLATE latin1_swedish_ci;

ALTER TABLE endcap
ADD CONSTRAINT FK_endcap_standard_id FOREIGN KEY (standard)
REFERENCES standard (id) ON DELETE CASCADE ON UPDATE CASCADE;
```

## Depends On ①

⊞ standard

## Used By ⑦

▦ selectEndCaps

▦ selectStandarsComplete

▦ deleteEndCap

▦ insertEndCap

𝑓𝓍 existEndCap

𝑓𝓍 selectEndCaps_has_Standard

⚡ deleteStandardChilds

```
CREATE TABLE endcap (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
```

# ⊞ enviroment

## Description

Enviroments

## Properties

| Name | Value |
|------|-------|
| Engine | InnoDB |
| Auto Increment | 8 |
| Average Row Length | 4096 |
| Charset | latin1 |
| Collation | latin1_swedish_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | **False** |
| Page Checksum | **True** |
| Pack Keys | **False** |
| Delay Key Write | **False** |
| Is Partitioned | **False** |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|-----|------|-----------|--------|-----------|-------|----------|----------|--------|----------|----------------|---------|---------|-----------|-------------|
| 🔑🖧 | id | INT | | 11 | | **True** | **False** | **False** | **True** | **True** | | **False** | **False** | |
| 🔑🖧 | standard | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | inside | VARCHAR | 30 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | outside | VARCHAR | 30 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | createdAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |
| | updatedAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|-----|------|---------|--------|------|-------------|
| 🔑 | | id | **True** | None | 0 |
| | FK_enviroment_standard_id | standard | **False** | None | 0 |

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|---|---|---|---|
| FK_enviroment_standard_id | id | N/S | N/S |

## SQL Script

```sql
CREATE TABLE enviroment (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  standard int UNSIGNED NOT NULL,
  inside varchar(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  outside varchar(30) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 4096,
CHARACTER SET latin1,
COLLATE latin1_swedish_ci,
COMMENT = 'Enviroments';

ALTER TABLE enviroment
ADD CONSTRAINT FK_enviroment_standard_id FOREIGN KEY (standard)
REFERENCES standard (id) ON DELETE CASCADE ON UPDATE CASCADE;
```

## Depends On 1

田 standard

## Used By 7

田 selectEnviroment
田 selectStandarsComplete
田 deleteEnviroment
田 insertEnviroment
ƒx existEnviroment
ƒx selectEnviroments_has_Standard
⚡ deleteStandardChilds

# ⊞ material

## Description
Material of Hoop

## Properties

| Name | Value |
|------|-------|
| Engine | InnoDB |
| Auto Increment | 13 |
| Average Row Length | 16384 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | **False** |
| Page Checksum | **True** |
| Pack Keys | **False** |
| Delay Key Write | **False** |
| Is Partitioned | **False** |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|-----|------|-----------|--------|-----------|-------|----------|----------|--------|----------|----------------|---------|---------|-----------|-------------|
| 🔑 | id | INT | | 11 | | **True** | **False** | **False** | **True** | **True** | | **False** | **False** | |
| | name | VARCHAR | 15 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | description | VARCHAR | 120 | | | **False** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | createdAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |
| | updatedAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|-----|------|---------|--------|------|-------------|
| 🔑 | | id | **True** | None | 0 |

## Triggers

| Name | Type | Event | Security | Definer |
|------|------|-------|----------|---------|

| deleteMaterialChilds | BEFORE | DELETE | Definer | root |
|---|---|---|---|---|

## SQL Script

```sql
CREATE TABLE material (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  name varchar(15) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  description varchar(120) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 16384,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Material of Hoop';
```

## Depends On

No items found

## Used By 13

- selectMaterials
- selectStandarsComplete
- deleteMaterial
- insertMaterial
- insertRelatedMaterial
- insertSpecification
- selectMaterialsJSON
- updateMaterial
- deleteMaterialChilds
- material_has_standard
- specification
- existMaterial
- selectMaterials_has_Standard

# ▦ material_has_standard

## Description

## Properties

| Name | Value |
|------|-------|
| Engine | InnoDB |
| Auto Increment | 4 |
| Average Row Length | 8192 |
| Charset | utf8mb4 |
| Collation | utf8mb4_0900_ai_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | **False** |
| Page Checksum | **True** |
| Pack Keys | **False** |
| Delay Key Write | **False** |
| Is Partitioned | **False** |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|-----|------|-----------|--------|-----------|-------|----------|----------|--------|----------|----------------|---------|---------|-----------|-------------|
| 🔑🖧 | id | INT | | 11 | | **True** | **False** | **False** | **True** | **True** | | **False** | **False** | |
| 🔑🖧 | material | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| 🔑🖧 | standard | INT | | 11 | | **True** | **False** | **False** | **True** | **False** | | **False** | **False** | |
| | type | VARCHAR | 25 | | | **False** | **False** | **False** | **True** | **False** | 'Plastico' | **False** | **False** | |
| | createdAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |
| | updatedAt | DATETIME | | 0 | | **False** | **False** | **False** | **True** | **False** | CURRENT_TIMESTAMP | **False** | **False** | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|-----|------|---------|--------|------|-------------|
| 🔑 | | id | **True** | None | 0 |
| | FK_material_has_standard_material_id | material | **False** | None | 0 |

| | FK_material_has_standard_standard_id | | standard | **False** | None | 0 |
|---|---|---|---|---|---|---|

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|---|---|---|---|
| FK_material_has_standard_material_id | id | N/S | N/S |
| FK_material_has_standard_standard_id | id | N/S | N/S |

## SQL Script

```sql
CREATE TABLE material_has_standard (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  material int UNSIGNED NOT NULL,
  standard int UNSIGNED NOT NULL,
  type varchar(25) NOT NULL DEFAULT 'Plastico',
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 8192,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE material_has_standard
ADD CONSTRAINT FK_material_has_standard_material_id FOREIGN KEY (material)
REFERENCES material (id) ON DELETE CASCADE ON UPDATE CASCADE;

ALTER TABLE material_has_standard
ADD CONSTRAINT FK_material_has_standard_standard_id FOREIGN KEY (standard)
REFERENCES standard (id) ON DELETE CASCADE ON UPDATE CASCADE;
```

## Depends On ②

- material
- standard

## Used By ⑧

- selectMaterials
- selectStandarsComplete
- deleteRelatedMaterial
- insertRelatedMaterial
- existRelatedMaterial
- selectMaterials_has_Standard
- deleteMaterialChilds
- deleteStandardChilds
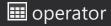
# ⊞ operator

## Description

## Properties

| Name | Value |
|------|-------|
| Engine | InnoDB |
| Auto Increment | 15 |
| Average Row Length | 2730 |
| Charset | utf8mb4 |
| Collation | utf8mb4_0900_ai_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|-----|------|-----------|--------|-----------|-------|----------|----------|--------|----------|----------------|---------|---------|-----------|-------------|
| 🔑🖧 | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| | dni | INT | | 11 | | True | False | False | True | False | | False | False | |
| | name | VARCHAR | 50 | | | False | False | False | True | False | | False | False | |
| | familyname | VARCHAR | 50 | | | False | False | False | True | False | | False | False | |
| | createdAt | DATETIME | | 4 | | False | False | False | True | False | CURRENT_TIMESTAMP(4) | False | False | |
| | updatedAt | DATETIME | | 4 | | False | False | False | True | False | CURRENT_TIMESTAMP(4) | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|-----|------|---------|--------|------|-------------|
| 🔑 | | id | True | None | 0 |

## SQL Script

```
CREATE TABLE operator (
    id int UNSIGNED NOT NULL AUTO_INCREMENT,
    dni int UNSIGNED NOT NULL,
```

```sql
    name varchar(50) NOT NULL,
    familyname varchar(50) NOT NULL,
    createdAt datetime(4) NOT NULL DEFAULT CURRENT_TIMESTAMP(4),
    updatedAt datetime(4) NOT NULL DEFAULT CURRENT_TIMESTAMP(4) ON UPDATE CURRENT_TIMESTAMP(4),
    PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 2730,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;
```

## Depends On

No items found

## Used By 6

🔲 selectOperators

🔲 deleteOperator

🔲 insertOperator

🔲 selectOperatorsJSON

🔲 updateOperator

_fx_ existOperator

# ⊞ specification

## Description

Specification of material

## Properties

| Name | Value |
| --- | --- |
| Engine | InnoDB |
| Auto Increment | 11 |
| Average Row Length | 16384 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 🔑🕸 | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| 🔑🕸 | material | INT | | 11 | | True | False | False | True | False | | False | False | |
| | name | VARCHAR | 15 | | | False | False | False | True | False | | False | False | |
| | description | VARCHAR | 120 | | | False | False | False | False | False | 'Sin Descripción' | False | False | |
| | createdAt | DATETIME | | 0 | | False | False | False | True | False | | False | False | |
| | updatedAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
| --- | --- | --- | --- | --- | --- |
| 🔑 | | id | True | None | 0 |
| | FK_specification_material_id | material | False | None | 0 |

## Triggers

| Name | Type | Event | Security | Definer |
|------|------|-------|----------|---------|
| deleteConfigurationsChilds | BEFORE | DELETE | Definer | root |

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|------|---------|-------------|-------------|
| FK_specification_material_id | id | N/S | N/S |

## SQL Script

```sql
CREATE TABLE specification (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  material int UNSIGNED NOT NULL,
  name varchar(15) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  description varchar(120) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci DEFAULT 'Sin Descripción',
  createdAt datetime NOT NULL,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 16384,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Specification of material';

ALTER TABLE specification
ADD CONSTRAINT FK_specification_material_id FOREIGN KEY (material)
REFERENCES material (id) ON UPDATE CASCADE;
```

## Depends On 1

material

## Used By 12

selectSpecifications

deleteSpecification

insertSpecification

insertSpecification_Configuration

updateSpecification

deleteConfigurationsChilds

specification_configuration

existConfiguration

existSpecification

existSpecimen

selectSpecifications

deleteMaterialChilds

# ⊞ specification_configuration

## Description

Conditional period by Specification

## Properties

| Name | Value |
|---|---|
| Engine | InnoDB |
| Auto Increment | 12 |
| Average Row Length | 8192 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 🔑 | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| 🔑 | specification | INT | | 11 | | True | False | False | True | False | | False | False | |
| | time | SMALLINT | | 6 | | True | False | False | True | False | | False | False | |
| | timeType | VARCHAR | 1 | | | False | False | False | True | False | 'H' | False | False | |
| | temperature | TINYINT | | 4 | | True | False | False | True | False | | False | False | |
| | createdAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |
| | updatedAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|---|---|---|---|---|---|
| 🔑 | | id | True | None | 0 |

| FK_period_by_material_material_id | specification | **False** | None | 0 |
|---|---|---|---|---|

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|---|---|---|---|
| FK_specification_configuration_specification_id | id | N/S | N/S |

## SQL Script

```sql
CREATE TABLE specification_configuration (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  specification int UNSIGNED NOT NULL,
  time smallint UNSIGNED NOT NULL,
  timeType varchar(1) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL DEFAULT 'H',
  temperature tinyint UNSIGNED NOT NULL,
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 8192,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Conditional period by Specification';

ALTER TABLE specification_configuration
ADD INDEX FK_period_by_material_material_id (specification);

ALTER TABLE specification_configuration
ADD CONSTRAINT FK_specification_configuration_specification_id FOREIGN KEY (specification)
REFERENCES specification (id) ON UPDATE CASCADE;
```

## Depends On ①

specification

## Used By ⑦

selectSettingsSpecification

deleteSpecification_Configuration

insertSpecification_Configuration

updateSpecification_Configuration

existSpecification_Configuration

selectSpecification_Configurations

deleteConfigurationsChilds

# ⊞ standard

## Description

Standards: ISO, IRAM, ...

## Properties

| Name | Value |
| --- | --- |
| Engine | InnoDB |
| Auto Increment | 6 |
| Average Row Length | 16384 |
| Charset | utf8mb4 |
| Collation | utf8mb4_general_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ⌐⊙⊞ | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| | name | VARCHAR | 60 | | | False | False | False | True | False | | False | False | |
| | createdAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |
| | updatedAt | DATETIME | | 0 | | False | False | False | False | False | CURRENT_TIMESTAMP | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
| --- | --- | --- | --- | --- | --- |
| ⌐⊙ | | id | True | None | 0 |

## Triggers

| Name | Type | Event | Security | Definer |
| --- | --- | --- | --- | --- |
| deleteStandardChilds | BEFORE | DELETE | Definer | root |

## SQL Script

```sql
CREATE TABLE standard (
  id int UNSIGNED NOT NULL AUTO_INCREMENT,
  name varchar(60) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL,
  createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
  updatedAt datetime DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
  PRIMARY KEY (id)
)
ENGINE = INNODB,
AVG_ROW_LENGTH = 16384,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_general_ci,
COMMENT = 'Standards: ISO, IRAM, ...';
```

## Depends On

No items found

## Used By 19

- selectMaterials
- selectStandards
- selectStandarsComplete
- deleteStandard
- insertConditionalPeriod
- insertEndCap
- insertEnviroment
- insertRelatedMaterial
- insertStandard
- insertTestType
- selectStandardsJSON
- updateStandard
- conditional_period
- endcap
- enviroment
- material_has_standard
- deleteStandardChilds
- test_type
- existStandard

# ⊞ test_type

## Description

## Properties

| Name | Value |
|---|---|
| Engine | InnoDB |
| Auto Increment | 5 |
| Average Row Length | 0 |
| Charset | utf8mb4 |
| Collation | utf8mb4_0900_ai_ci |
| Row Format | Dynamic |
| Min Rows | 0 |
| Max Rows | 0 |
| Checksum | False |
| Page Checksum | True |
| Pack Keys | False |
| Delay Key Write | False |
| Is Partitioned | False |
| Encryption | False |
| Persistent Statistics | DEFAULT |
| Auto Recalculate Statistics | DEFAULT |
| Sample Pages | 0 |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 1/1/0001 00:00:00 |

## Columns

| Key | Name | Data Type | Length | Precision | Scale | Unsigned | Zerofill | Binary | Not Null | Auto Increment | Default | Virtual | Invisible | Description |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 🔑🖧 | id | INT | | 11 | | True | False | False | True | True | | False | False | |
| 🔑🖧 | standard | INT | | 11 | | True | False | False | True | False | | False | False | |
| | testType | VARCHAR | 150 | | | False | False | False | True | False | | False | False | |
| | createdAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |
| | updatedAt | DATETIME | | 0 | | False | False | False | True | False | CURRENT_TIMESTAMP | False | False | |

## Indexes

| Key | Name | Columns | Unique | Type | Key Lengths |
|---|---|---|---|---|---|
| 🔑 | | id | True | None | 0 |
| | FK_test_type_standard_id | standard | False | None | 0 |

## Foreign Keys

| Name | Columns | Delete Rule | Update Rule |
|---|---|---|---|
| FK_test_type_standard_id | id | N/S | N/S |

## SQL Script

```sql
CREATE TABLE test_type (
    id int UNSIGNED NOT NULL AUTO_INCREMENT,
    standard int UNSIGNED NOT NULL,
    testType varchar(150) NOT NULL,
    createdAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP,
    updatedAt datetime NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
    PRIMARY KEY (id)
)
ENGINE = INNODB,
CHARACTER SET utf8mb4,
COLLATE utf8mb4_0900_ai_ci;

ALTER TABLE test_type
ADD CONSTRAINT FK_test_type_standard_id FOREIGN KEY (standard)
REFERENCES standard (id) ON DELETE CASCADE ON UPDATE CASCADE;
```

## Depends On ①

⊞ standard

## Used By ⑥

▦ selectTestType

▦ deleteTestType

▦ insertTestType

𝑓𝑥 existTest_Type

𝑓𝑥 selectTest_Type

⚡ deleteStandardChilds

```sql
CREATE TABLE test_type (
    id int UNSIGNED NOT NULL AUTO_INCREMENT,
```

# 📁 Procedures

## Objects ³⁸

| Name | Description |
|------|-------------|
| deleteConditionalPeriod | Copyright © All Rights Reserved                                                    Created: 18/06/2024 |
| deleteEndCap | |
| deleteEnviroment | |
| deleteMaterial | |
| deleteOperator | |
| deleteRelatedMaterial | |
| deleteSpecification | |
| deleteSpecification_Configuration | |
| deleteStandard | |
| deleteTestType | |
| insertConditionalPeriod | |
| insertEndCap | |
| insertEnviroment | |
| insertMaterial | |
| insertOperator | |
| insertRelatedMaterial | |
| insertSpecification | |
| insertSpecification_Configuration | |
| insertStandard | |
| insertTestType | |
| selectConditionalPeriods | |
| selectEndCaps | |
| selectEnviroment | |
| selectMaterials | |
| selectMaterialsJSON | |
| selectOperators | |
| selectOperatorsJSON | |
| selectSettingsSpecification | |
| selectSpecifications | |
| selectStandards | |
| selectStandardsJSON | |
| selectStandarsComplete | |
| selectTestType | |

| updateMaterial | |
|---|---|
| updateOperator | |
| updateSpecification | |
| updateSpecification_Configuration | |
| updateStandard | |

# deleteConditionalPeriod

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE deleteConditionalPeriod (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (exist(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM conditional_period cp
    WHERE cp.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On ②

🔒 databaseManager@%
⊞ conditional_period

## Used By

No items found

# 🖼️ deleteEndCap

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE deleteEndCap (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existEndCap(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM endcap cp
    WHERE cp.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On ③

🔒 databaseManager@%
ƒ✕ existEndCap
▦ endcap

## Used By

No items found

# deleteEnviroment

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteEnviroment (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existEnviroment(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM enviroment e
    WHERE e.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On ③

databaseManager@%

existEnviroment

enviroment

## Used By

No items found

# deleteMaterial

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteMaterial (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existMaterial(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM material m
    WHERE m.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On 3

🔐 databaseManager@%
𝑓× existMaterial
▦ material

## Used By

No items found

# deleteOperator

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 11/6/2024 11:06:03 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteOperator (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existOperator(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM operator o
    WHERE o.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On 3

🔒 databaseManager@%

📜 existOperator

▦ operator

## Used By

No items found

# deleteRelatedMaterial

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteRelatedMaterial (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existRelatedMaterial(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM material_has_standard mhs
    WHERE mhs.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;


  END
```

## Depends On ③

　　　　🔒 databaseManager@%
　　　　ƒ⚙ existRelatedMaterial
　　　　▦ material_has_standard

## Used By

No items found

# deleteSpecification

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteSpecification (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existSpecification(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM specification s
    WHERE s.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;


END
```

## Depends On ③

👤 databaseManager@%

📜 existSpecification

⊞ specification

## Used By

No items found

# deleteSpecification_Configuration

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE deleteSpecification_Configuration (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existSpecification_Configuration(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM specification_configuration sc
    WHERE sc.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On ③

🔒 databaseManager@%

ƒx existSpecification_Configuration

▦ specification_configuration

## Used By

No items found

# deleteStandard

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteStandard (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existStandard(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM standard s
    WHERE s.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;


END
```

## Depends On ③

　　　　 databaseManager@%
　　　　 existStandard
　　　　 standard

## Used By

No items found

# deleteTestType

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE deleteTestType (IN id int UNSIGNED)
DETERMINISTIC
BEGIN

  IF (existTest_Type(id) = TRUE) THEN
    DELETE LOW_PRIORITY QUICK
      FROM test_type tt
    WHERE tt.id = id
    LIMIT 1;

    SELECT
      'Successful Deleted!' AS `response`;
  ELSE
    SELECT
      'Unsuccessful Deleted!' AS `response`;
  END IF;

END
```

## Depends On ③

🔒 databaseManager@%

𝑓⋈ existTest_Type

▦ test_type

## Used By

No items found

# 📰 insertConditionalPeriod

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| minwall | INT | | 11 | |
| maxwall | INT | | 11 | |
| time | VARCHAR | 20 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE insertConditionalPeriod (IN idStandard int UNSIGNED, IN minwall int, IN maxwall int, IN time varchar(20))
DETERMINISTIC
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM conditional_period cp
  WHERE cp.standard = idStandard
  AND cp.minwall = minwall
  AND cp.maxwall = maxwall
  AND cp.time LIKE time;

  IF elements = 0 THEN
    INSERT HIGH_PRIORITY INTO conditional_period (standard, time, minwall, maxwall)
      VALUES (idStandard, time, minwall, maxwall);

    SELECT
      cp.id AS `key`,
      cp.time AS `time`,
      cp.minwall AS `minwall`,
      cp.maxwall AS `maxwall`
    FROM conditional_period cp
    WHERE cp.standard = idStandard
    AND cp.minwall = minwall
    AND cp.maxwall = maxwall
    AND cp.time LIKE time;
```

```
    ELSE
      SELECT
        'Already Exist!' AS `response`;
    END IF;

  END
```

## Depends On ③

🔒 databaseManager@%

▦ conditional_period

▦ standard

## Used By

No items found

# insertEndCap

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| endCap | VARBINARY | 15 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE insertEndCap (IN idStandard int UNSIGNED, IN endCap varbinary(15))
DETERMINISTIC
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM endcap ec
  WHERE ec.name = endCap
  AND ec.name = endCap;

  IF elements = 0 THEN
    INSERT HIGH_PRIORITY INTO endcap (standard, name)
      VALUES (idStandard, endCap);

    SELECT
      ec.id AS `key`,
      ec.name AS `endcap`
    FROM endcap ec
    WHERE ec.name = endCap
    AND ec.name = endCap;

  ELSE
    SELECT
      'Already Exist!' AS `response`;
  END IF;

END
```
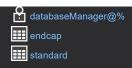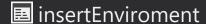
## Depends On 3

databaseManager@%

endcap

standard

## Used By

No items found

# insertEnviroment

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idStandard | INT | | 11 | |
| insideFluid | VARCHAR | 30 | | |
| outsideFluid | VARCHAR | 30 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertEnviroment (IN idStandard int UNSIGNED, IN insideFluid varchar(30), IN outsideFluid varchar(30))
DETERMINISTIC
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM enviroment e
  WHERE e.standard = idStandard
  AND e.inside LIKE insideFluid
  AND e.outside LIKE outsideFluid;

  IF elements = 0 THEN
    INSERT HIGH_PRIORITY INTO enviroment (standard, inside, outside)
      VALUES (idStandard, insideFluid, outsideFluid);

    SELECT
      e.id AS `key`,
      e.inside AS `insideFluid`,
      e.outside AS `outsideFluid`
    FROM enviroment e
    WHERE e.standard = idStandard
    AND e.inside LIKE insideFluid
    AND e.outside LIKE outsideFluid;

  ELSE
    SELECT
      'Already Exist!' AS `response`;
  END IF;
```

```
END
```

## Depends On [3]

🔒 databaseManager@%

▦ enviroment

▦ standard

## Used By

No items found

# 🖼 insertMaterial

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| nameIN | VARCHAR | 20 | | |
| descriptionIN | VARCHAR | 60 | | |

## SQL Script
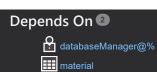
```sql
CREATE
DEFINER = 'root'
PROCEDURE insertMaterial (IN nameIN varchar(20), IN descriptionIN varchar(60))
DETERMINISTIC
BEGIN

  DECLARE selected bigint;
  DECLARE result json;

  SELECT
    COUNT(*) INTO selected
  FROM material m
  WHERE m.name LIKE nameIN;

  IF (selected = 0) THEN
    INSERT INTO material (name, description)
      VALUES (nameIN, descriptionIN);

    SELECT
      m.id AS `key`,
      m.name AS `material`,
      m.description AS `description`,
      '[]' AS `specifications`
    FROM material m
    WHERE m.name = nameIN;

  ELSE
    SELECT
      'Already Exists!' AS `response`;
  END IF;

END
```

## Depends On 2

🔒 databaseManager@%

▦ material

## Used By

No items found

# insertOperator

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 11/6/2024 11:06:03 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| dni | INT | | 11 | |
| name | VARCHAR | 20 | | |
| familyname | VARCHAR | 30 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertOperator (IN dni int UNSIGNED, IN name varchar(20), IN familyname varchar(30))
DETERMINISTIC
BEGIN

  DECLARE selected bigint;

  SELECT
    COUNT(*) INTO selected
  FROM operator o
  WHERE o.dni = dni;

  IF (selected = 0) THEN
    INSERT INTO operator (dni, name, familyname)
      VALUES (dni, name, familyname);

    SELECT
      o.id AS `key`,
      o.dni AS `dni`,
      o.name AS `name`,
      o.familyname AS `familyName`
    FROM operator o
    WHERE o.dni = dni;

  ELSE
    SELECT
      'Already Exists!' AS `response`;
  END IF;

END
```
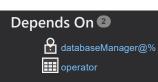
## Depends On 2

&#x1F512; databaseManager@%

&#x1F4CA; operator

## Used By

No items found

# 🖼 insertRelatedMaterial

## Description

## Properties

| Name | Value |
|---|---|
| SQL Access | CONTAINS SQL |
| Deterministic | **False** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|---|---|---|---|---|
| idStandard | INT | | 11 | |
| idMaterial | INT | | 11 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE insertRelatedMaterial (IN idStandard int UNSIGNED, IN idMaterial int UNSIGNED)
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM material_has_standard mhs
  WHERE mhs.material = idMaterial
  AND mhs.standard = idStandard;

  IF elements = 0 THEN
    INSERT HIGH_PRIORITY INTO material_has_standard (material, standard)
      VALUES (idMaterial, idStandard);

    SELECT
      mhs.id AS `key`,
      m.id AS `idMaterial`,
      m.name AS `material`
    FROM material_has_standard mhs
      INNER JOIN material m
        ON mhs.material = m.id
    WHERE mhs.material = idMaterial
    AND mhs.standard = idStandard;

  ELSE
    SELECT
      'Already Exist!' AS `response`;
  END IF;

END
```

## Depends On 4

🔒 databaseManager@%

▦ material_has_standard

▦ material

▦ standard

## Used By

No items found

# insertSpecification

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| materialIN | INT | | 11 | |
| nameIN | VARCHAR | 20 | | |
| descriptionIN | VARCHAR | 60 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE insertSpecification (IN materialIN int UNSIGNED, IN nameIN varchar(20), IN descriptionIN varchar(60))
DETERMINISTIC
BEGIN

  DECLARE selected bigint;

  SELECT
    COUNT(*) INTO selected
  FROM specification s
  WHERE s.name = nameIN
  AND s.material = materialIN;

  IF (selected = 0) THEN
    INSERT INTO specification (material, name, description)
      VALUES (materialIN, nameIN, descriptionIN);

    SELECT
      s.id AS `key`,
      s.name AS `specification`,
      s.description AS `description`,
      '[]' AS `configurations`
    FROM specification s
    WHERE s.name LIKE nameIN;

  ELSE
    SELECT
      'Already Exists!' AS `response`;
  END IF;

  END
```

## Depends On ③

&#128274; databaseManager@%

&#9638; specification

&#9638; material

## Used By

No items found

# insertSpecification_Configuration

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| specificationIN | INT | | 11 | |
| timeIN | SMALLINT | | 6 | |
| timeTypeIN | VARCHAR | 1 | | |
| temperatureIN | TINYINT | | 4 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertSpecification_Configuration (IN specificationIN int UNSIGNED, IN timeIN smallint, IN timeTypeIN
varchar(1), IN temperatureIN tinyint)
DETERMINISTIC
BEGIN

  DECLARE selected bigint;

  SELECT
    COUNT(*) INTO selected
  FROM specification_configuration sc
  WHERE sc.specification = specificationIN
  AND sc.time = timeIN
  AND sc.temperature = temperatureIN;

  IF (selected = 0) THEN
    INSERT INTO specification_configuration (specification, time, timeType, temperature)
      VALUES (specificationIN, timeIN, timeTypeIN, temperatureIN);

    SELECT
      sc.id AS `key`,
      sc.time AS `time`,
      sc.timeType AS `timeType`,
      sc.temperature AS `temperature`
    FROM specification_configuration sc
    WHERE sc.specification = specificationIN
    AND sc.time = timeIN
    AND sc.temperature = temperatureIN;
```

```
    ELSE
      SELECT
        'Already Exists!' AS `response`;
    END IF;

  END
```

## Depends On 3

    🔒 databaseManager@%

    ▦ specification_configuration

    ▦ specification

## Used By

No items found

# 🖼 insertStandard

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

### Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| nameIn | VARCHAR | 40 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertStandard (IN nameIn varchar(40))
DETERMINISTIC
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM standard s
  WHERE s.name = nameIn;

  IF elements = 0 THEN
    INSERT HIGH_PRIORITY INTO standard (name)
      VALUES (nameIn);

    SELECT
      s.id AS `key`,
      s.name AS `standard`,
      '[]' AS `materials`,
      '[]' AS `enviroments`,
      '[]' AS `endCaps`,
      '[]' AS conditionalPeriods
    FROM standard s
    WHERE s.name LIKE nameIn;

  ELSE
    SELECT
      'Already Exist!' AS `response`;
  END IF;

END
```
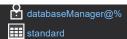
## Depends On ②

databaseManager@%

standard

## Used By

No items found

# 🖼 insertTestType

## Description

## Properties
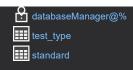
| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 13/6/2024 01:29:06 |
| Last Modified | 13/6/2024 01:29:06 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| idStandard | INT | | 11 | |
| testTypeIN | VARBINARY | 255 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE insertTestType (IN idStandard int UNSIGNED, IN testTypeIN varbinary(255))
DETERMINISTIC
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM test_type tt
  WHERE tt.standard = idStandard
  AND tt.testType = testTypeIN;

  IF elements = 0 THEN
    INSERT HIGH_PRIORITY INTO test_type (standard, testType)
      VALUES (idStandard, testTypeIN);

    SELECT
      tt.id AS `key`,
      tt.testType AS `testtype`
    FROM test_type tt
    WHERE tt.standard = idStandard
    AND tt.testType = testTypeIN;

  ELSE
    SELECT
      'Already Exist!' AS `response`;
  END IF;

END
```

## Depends On ③

databaseManager@%

test_type

standard

## Used By

No items found

# selectConditionalPeriods

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectConditionalPeriods (IN idStandard int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    cp.id AS idCondPeriod,
    cp.minwall AS minWall,
    cp.maxwall AS maxWall,
    cp.time AS condPeriod
  FROM conditional_period cp
  WHERE cp.standard = idStandard
  ORDER BY cp.minwall;

END
```

## Depends On ③

🔒 dataCollector@%
🔒 databaseManager@%
▦ conditional_period

## Used By

No items found

# selectEndCaps

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **False** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectEndCaps (IN idStandard int UNSIGNED)
BEGIN

  SELECT
    e.id AS `id`,
    e.name AS `endCap`
  FROM endcap e
  WHERE e.standard = idStandard;

END
```

## Depends On 3

🔒 dataCollector@%
🔒 databaseManager@%
▦ endcap

## Used By

No items found

# selectEnviroment

## Description

## Properties

| Name | Value |
|---|---|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|---|---|---|---|---|
| idStandard | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectEnviroment (IN idStandard int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    ehs.id,
    ehs.inside,
    ehs.outside
  FROM enviroment ehs
  WHERE ehs.standard = idStandard;

END
```

## Depends On 3

🔒 dataCollector@%
🔒 databaseManager@%
▦ enviroment

## Used By

No items found

# selectMaterials

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectMaterials (IN idStandard int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    mhs.material AS idMaterial,
    m.name AS materialName,
    m.description AS materialDescription,
    mhs.type AS materialType
  FROM material m
    INNER JOIN material_has_standard mhs
      ON m.id = mhs.material
  WHERE mhs.standard = standard;

  END
```

## Depends On ⑤
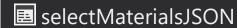
🔒 dataCollector@%
🔒 databaseManager@%
▦ material
▦ material_has_standard
▦ standard

## Used By

No items found

# selectMaterialsJSON

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectMaterialsJSON ()
DETERMINISTIC
BEGIN

  SELECT
    JSON_ARRAYAGG(JSON_OBJECT('key', m.id,
    'material', m.name,
    'description', (IF(m.description IS NULL, 'Sin Descripción', m.description)),
    'specifications', (selectSpecifications(m.id)))) AS `materials`
  FROM material m;

END
```

## Depends On ③

🔒 databaseManager@%
📄 selectSpecifications
🗌 material

## Used By

No items found

# selectOperators

## Description

## Properties

| Name | Value |
|---|---|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 11/6/2024 11:06:03 |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectOperators ()
DETERMINISTIC
BEGIN

  SELECT
    o.id,
    o.dni,
    o.name,
    o.familyname
  FROM operator o;

END
```

## Depends On 3

🔒 dataCollector@%
🔒 databaseManager@%
▦ operator

## Used By

No items found

# selectOperatorsJSON

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 11/6/2024 11:06:03 |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectOperatorsJSON ()
DETERMINISTIC
BEGIN

  SELECT
    JSON_ARRAYAGG(JSON_OBJECT('key', o.id,
    'dni', o.dni,
    'name', o.name,
    'familyName', o.familyname)) AS `operators`
  FROM operator o;

END
```
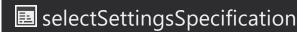
## Depends On 2

🔒 databaseManager@%
▦ operator

## Used By

No items found

# selectSettingsSpecification

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecification | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectSettingsSpecification (IN idSpecification int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    sc.id AS idSetting,
    sc.time AS time,
    sc.temperature AS temperature
  FROM specification_configuration sc
  WHERE sc.specification = idSpecification;

END
```
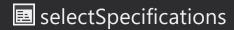
## Depends On ③

🔒 dataCollector@%
🔒 databaseManager@%
📊 specification_configuration

## Used By

No items found

# selectSpecifications

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idMaterial | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectSpecifications (IN idMaterial int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    s.id AS idSpecification,
    s.name AS nameSpecification,
    s.description AS descriptionSpecification
  FROM specification s
  WHERE s.material = idMaterial;

END
```

## Depends On ③

dataCollector@%

databaseManager@%

specification

## Used By ①

selectMaterialsJSON

# selectStandards

## Description

## Properties

| Name | Value |
|---|---|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE selectStandards ()
DETERMINISTIC
BEGIN

  SELECT
    s.id AS idStandard,
    s.name AS standardName
  FROM standard s;

END
```
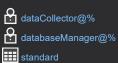
## Depends On ③

🔒 dataCollector@%
🔒 databaseManager@%
▦ standard

## Used By

No items found

# 🖼 selectStandardsJSON

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 12/6/2024 22:38:42 |
| Last Modified | 12/6/2024 22:38:42 |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE selectStandardsJSON ()
DETERMINISTIC
BEGIN

  SELECT
    JSON_ARRAYAGG(JSON_OBJECT('key', s.id,
    'standard', s.name,
    'materials', (selectMaterials_has_Standard(s.id)),
    'enviroments', (selectEnviroments_has_Standard(s.id)),
    'endCaps', (selectEndCaps_has_Standard(s.id)),
    'conditionalPeriods', (selectConditionalPeriods_has_Standard(s.id)),
    'testTypes', (selectTest_Type(s.id)))) AS `standards`
  FROM standard s;

END
```

## Depends On ⑦

    🔑 databaseManager@%
    ƒ⚙ selectMaterials_has_Standard
    ƒ⚙ selectEnviroments_has_Standard
    ƒ⚙ selectEndCaps_has_Standard
    ƒ⚙ selectConditionalPeriods_has_Standard
    ƒ⚙ selectTest_Type
    ▦ standard

## Used By

No items found

# ▣ selectStandarsComplete

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE selectStandarsComplete ()
DETERMINISTIC
BEGIN

  SELECT
    s.id,
    s.name,
    (SELECT
        JSON_ARRAYAGG(JSON_OBJECT('id', e.id,
        'endcap', e.name))
      FROM endcap e
      WHERE e.standard = s.id) AS `endCaps`,
    (SELECT
        JSON_ARRAYAGG(JSON_OBJECT('id', e.id,
        'insertFluid', e.inside,
        'outsideFluid', e.outside))
      FROM enviroment e
      WHERE e.standard = s.id) AS `enviroment`,
    (SELECT
        JSON_ARRAYAGG(JSON_OBJECT('id', cp.id,
        'minwall', cp.minwall,
        'maxwall', cp.maxwall,
        'time', cp.time))
      FROM conditional_period cp
      WHERE cp.standard = s.id) AS conditionalPeriod,
    (SELECT
        JSON_ARRAYAGG(JSON_OBJECT('id', mhs.id,
        'idMaterial', mhs.material,
        'material', m.name,
        'description', m.description))
      FROM material_has_standard mhs
        INNER JOIN material m
          ON mhs.material = m.id
      WHERE mhs.standard = s.id) AS relatedMaterial
  FROM standard s;

  END
```

## Depends On ⁸

dataCollector@%

databaseManager@%

endcap

enviroment

conditional_period

material_has_standard

material

standard

## Used By

No items found

Author: Ezequiel Augusto Stanganelli
Created: 18/06/2024

# selectTestType

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE selectTestType (IN idStandard int UNSIGNED)
DETERMINISTIC
BEGIN

  SELECT
    tt.id,
    tt.testType
  FROM test_type tt
  WHERE tt.standard = idStandard;

END
```
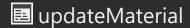
## Depends On 3

🔒 dataCollector@%
🔒 databaseManager@%
▦ test_type

## Used By

No items found

# updateMaterial

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| nameIN | VARCHAR | 20 | | |
| descriptionIN | VARCHAR | 80 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE updateMaterial (IN id int UNSIGNED, IN nameIN varchar(20), IN descriptionIN varchar(80))
DETERMINISTIC
BEGIN

  DECLARE result text;

  IF (existMaterial(id) = TRUE) THEN
    UPDATE LOW_PRIORITY material m
    SET m.id = id,
        m.name = nameIN,
        m.description = descriptionIN
    WHERE m.id = id;

    SELECT
      'Successful Updated!' INTO result;
  ELSE
    SELECT
      'Unsucessful Updated!' INTO result;
  END IF;

  SELECT
    result AS `response`;

END
```
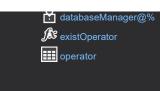
## Depends On ③

🔒 databaseManager@%

𝒇𝓍 existMaterial

## Used By

No items found

# updateOperator

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 11/6/2024 11:06:03 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| dni | INT | | 11 | |
| name | VARCHAR | 50 | | |
| familyname | VARCHAR | 50 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE updateOperator (IN id int UNSIGNED, IN dni int UNSIGNED, IN name varchar(50), IN familyname varchar(50))
DETERMINISTIC
BEGIN

  DECLARE result text;

  IF (existOperator(id) = TRUE) THEN
    UPDATE LOW_PRIORITY operator o
    SET o.dni = dni,
        o.name = name,
        o.familyname = familyname
    WHERE o.id = id;

    SELECT
      'Successful Updated!' INTO result;
  ELSE
    SELECT
      'Unsuccessful Updated!' INTO result;
  END IF;

  SELECT
    result AS response;

END
```

## Depends On 3

O

databaseManager@%

existOperator

operator

## Used By

No items found

# updateSpecification

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| nameIN | VARCHAR | 20 | | |
| descriptionIN | VARCHAR | 80 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE updateSpecification (IN id int UNSIGNED, IN nameIN varchar(20), IN descriptionIN varchar(80))
DETERMINISTIC
BEGIN

  DECLARE result text;

  IF (existSpecification(id) = TRUE) THEN
    UPDATE LOW_PRIORITY specification s
    SET s.id = id,
        s.name = nameIN,
        s.description = descriptionIN
    WHERE s.id = id;

    SELECT
      'Successful Updated!' INTO result;
  ELSE
    SELECT
      'Unsuccessful Updated!' INTO result;
  END IF;

  SELECT
    result AS `response`;
END
```

## Depends On 3

🔒 databaseManager@%

ƒ✕ existSpecification

## Used By

No items found

# updateSpecification_Configuration

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| timeIN | SMALLINT | | 6 | |
| timeTypeIN | VARCHAR | 1 | | |
| temperatureIN | TINYINT | | 4 | |

## SQL Script

```
CREATE
DEFINER = 'root'
PROCEDURE updateSpecification_Configuration (IN id int UNSIGNED, IN timeIN smallint, IN timeTypeIN varchar(1), IN
temperatureIN tinyint)
DETERMINISTIC
BEGIN

  DECLARE result text;

  IF (existSpecification_Configuration(id) = TRUE) THEN
    UPDATE LOW_PRIORITY specification_configuration sc
    SET sc.id = id,
        sc.time = timeIN,
        sc.timeType = timeTypeIN,
        sc.temperature = temperatureIN
    WHERE sc.id = id;

    SELECT
      'Successful Updated!' INTO result;
  ELSE
    SELECT
      'Unsuccessful Updated!' INTO result;
  END IF;

  SELECT
    result AS response;
END
```

## Depends On 3

🔒 databaseManager@%

𝑓𝑥 existSpecification_Configuration

▦ specification_configuration

## Used By

No items found

# updateStandard

## Description
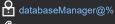
## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| nameIN | VARCHAR | 60 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
PROCEDURE updateStandard (IN id int UNSIGNED, IN nameIN varchar(60))
DETERMINISTIC
BEGIN

  DECLARE result text;

  IF (existStandard(id) = TRUE) THEN
    UPDATE LOW_PRIORITY standard s
    SET s.id = id,
        s.name = nameIN
    WHERE s.id = id;

    SELECT
      'Successful Updated!' INTO result;
  ELSE
    SELECT
      'Unsucessful Updated!' INTO result;
  END IF;

  SELECT
    result AS `response`;

END
```

## Depends On 3

databaseManager@%

existStandard

standard

## Used By

No items found

# 📁 Functions

## Objects 19
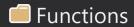
| Name | Description |
| --- | --- |
| existConditionalPeriod | |
| existConfiguration | |
| existEndCap | |
| existEnviroment | |
| existMaterial | |
| existOperator | |
| existRelatedMaterial | |
| existSpecification | |
| existSpecification_Configuration | |
| existSpecimen | |
| existStandard | |
| existTest_Type | |
| selectConditionalPeriods_has_Standard | |
| selectEndCaps_has_Standard | |
| selectEnviroments_has_Standard | |
| selectMaterials_has_Standard | |
| selectSpecifications | |
| selectSpecification_Configurations | |
| selectTest_Type | |

# ℬ℀ existConditionalPeriod

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existConditionalPeriod (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM conditional_period cp
  WHERE cp.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On 1

🔲 conditional_period

## Used By

No items found

# 𝒇𝔁 existConfiguration

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existConfiguration (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM specification s
  WHERE s.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①

🗎 specification

## Used By

No items found

# 𝄞 existEndCap

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existEndCap (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM endcap e
  WHERE e.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①

⊞ endcap

## Used By ①

▤ deleteEndCap

# 𝕗𝕩 existEnviroment

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existEnviroment (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM enviroment e
  WHERE e.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On 1

🏢 enviroment

## Used By 1

📄 deleteEnviroment

# 𝕱𝕩 existMaterial

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existMaterial (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM material m
  WHERE m.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①
    &#x1F4CA; material

## Used By ②
    &#x1F4C4; deleteMaterial
    &#x1F4C4; updateMaterial

# ⚙ existOperator

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:03 |
| Last Modified | 11/6/2024 11:06:03 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existOperator (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM operator o
  WHERE o.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ❶

⊞ operator

## Used By ❷

⊞ deleteOperator
⊞ updateOperator

# 𝄢 existRelatedMaterial

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existRelatedMaterial (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM material_has_standard mhs
  WHERE mhs.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①
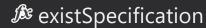
🏢 material_has_standard

## Used By ①

📇 deleteRelatedMaterial

# 𝔰𝔠 existSpecification

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existSpecification (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected int;
  SELECT
    COUNT(*) INTO selected
  FROM specification s
  WHERE s.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①

▦ specification

## Used By ②

▤ deleteSpecification
▤ updateSpecification

# existSpecification_Configuration

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
FUNCTION existSpecification_Configuration (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM specification_configuration sc
  WHERE sc.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ❶

🔲 specification_configuration

## Used By ❷

🔳 deleteSpecification_Configuration
🔳 updateSpecification_Configuration

# 𝕗𝕩 existSpecimen

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:01 |
| Last Modified | 11/6/2024 11:06:01 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existSpecimen (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM specification s
  WHERE s.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①

⊞ specification

## Used By

No items found

# 🔧 existStandard

## Description

## Properties

| Name | Value |
|---|---|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|---|---|---|---|---|
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existStandard (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM standard s
  WHERE s.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①

⊞ standard

## Used By ②

▦ deleteStandard
▦ updateStandard

# 𝓯𝔁 existTest_Type

## Description

## Properties

| Name | Value |
| --- | --- |
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
| --- | --- | --- | --- | --- |
| id | INT | | 11 | |
| (Result) | TINYINT | | 1 | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION existTest_Type (id int UNSIGNED)
RETURNS tinyint(1)
DETERMINISTIC
BEGIN

  DECLARE selected bigint(255);
  SELECT
    COUNT(*) INTO selected
  FROM test_type tt
  WHERE tt.id = id;

  IF selected != 1 THEN
    RETURN FALSE;
  ELSE
    RETURN TRUE;
  END IF;

END
```

## Depends On ①

⊞ test_type

## Used By ①

▦ deleteTestType

# ℘ selectConditionalPeriods_has_Standard

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | True |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
FUNCTION selectConditionalPeriods_has_Standard (idStandard int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint(1);

  SELECT
    COUNT(*) INTO elements
  FROM conditional_period cp
  WHERE cp.standard = idStandard;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', cp.id,
      'time', cp.time,
      'minwall', cp.minwall,
      'maxwall', cp.maxwall)) INTO result
    FROM conditional_period cp
    WHERE cp.standard = idStandard;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ❶

conditional_period

## Used By (1)

selectStandardsJSON

# 𝄢 selectEndCaps_has_Standard

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectEndCaps_has_Standard (idStandard int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint(1);

  SELECT
    COUNT(*) INTO elements
  FROM endcap ec
  WHERE ec.standard = idStandard;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', ec.id,
      'endcap', ec.name)) INTO result
    FROM endcap ec
    WHERE ec.standard = idStandard;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ❶

⊞ endcap

## Used By [1]

- selectStandardsJSON

# 𝓯𝕩 selectEnviroments_has_Standard

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectEnviroments_has_Standard (idStandard int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint;

  SELECT
    COUNT(*) INTO elements
  FROM enviroment e
  WHERE e.standard = idStandard;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', e.id,
      'insideFluid', e.inside,
      'outsideFluid', e.outside)) INTO result
    FROM enviroment e
    WHERE e.standard = idStandard;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ❶

enviroment

## Used By ①

selectStandardsJSON

# ℬ selectMaterials_has_Standard

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script
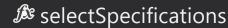
```
CREATE
DEFINER = 'root'
FUNCTION selectMaterials_has_Standard (idStandard int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint;

  SELECT
    COUNT(*) INTO elements
  FROM material_has_standard mhs
  WHERE mhs.standard = idStandard;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', mhs.id,
      'idMaterial', mhs.material,
      'material', m.name,
      'descriptioin', m.description)) INTO result
    FROM material_has_standard mhs
      INNER JOIN material m
        ON m.id = mhs.standard
    WHERE mhs.standard = idStandard;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ②

⊞ material_has_standard

⊞ material

## Used By ①

▥ selectStandardsJSON

# 𝆕 selectSpecifications

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idMaterial | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script
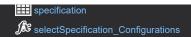
```
CREATE
DEFINER = 'root'
FUNCTION selectSpecifications (idMaterial int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint;

  SELECT
    COUNT(*) INTO elements
  FROM specification s
  WHERE s.material = idMaterial;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', s.id,
      'specification', s.name,
      'description', (IF(s.description IS NULL, '', s.description)),
      'configurations', (selectSpecification_Configurations(s.id)))) INTO result
    FROM specification s
    WHERE s.material = idMaterial;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ❷

specification

selectSpecification_Configurations

## Used By

No items found

# 𝄞 selectSpecification_Configurations

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 11/6/2024 11:06:02 |
| Last Modified | 11/6/2024 11:06:02 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idSpecification | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```sql
CREATE
DEFINER = 'root'
FUNCTION selectSpecification_Configurations (idSpecification int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint;

  SELECT
    COUNT(*) INTO elements
  FROM specification_configuration sc
  WHERE sc.specification = idSpecification;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', sc.id,
      'time', sc.time,
      'type', sc.timeType,
      'temperature', sc.temperature)) INTO result
    FROM specification_configuration sc
    WHERE sc.specification = idSpecification;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ❶

specification_configuration

## Used By 1

𝑓𝑥 selectSpecifications

# 𝄞 selectTest_Type

## Description

## Properties

| Name | Value |
|------|-------|
| SQL Access | CONTAINS SQL |
| Deterministic | **True** |
| Security | Definer |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Language | SQL |
| Created | 12/6/2024 23:06:23 |
| Last Modified | 12/6/2024 23:06:23 |

## Parameters

| Name | Data Type | Length | Precision | Scale |
|------|-----------|--------|-----------|-------|
| idStandard | INT | | 11 | |
| (Result) | JSON | 0 | | |

## SQL Script

```
CREATE
DEFINER = 'root'
FUNCTION selectTest_Type (idStandard int UNSIGNED)
RETURNS json
DETERMINISTIC
BEGIN

  DECLARE result json;
  DECLARE elements tinyint;

  SELECT
    COUNT(*) INTO elements
  FROM test_type tt
  WHERE tt.id = idStandard;

  IF (elements > 0) THEN
    SELECT
      JSON_ARRAYAGG(JSON_OBJECT('key', tt.id,
      'testtype', tt.testType)) INTO result
    FROM test_type tt
    WHERE tt.id = idStandard;
  ELSE
    SELECT
      '[]' INTO result;
  END IF;

  RETURN result;
END
```

## Depends On ❶

🌐 test_type

## Used By [1]

🔳 selectStandardsJSON

# 📁 Triggers

## Objects ③

| Name |
| --- |
| deleteConfigurationsChilds |
| deleteMaterialChilds |
| deleteStandardChilds |

# 📁 Triggers

## Objects ③

| Name |
| --- |

# ⚡ deleteConfigurationsChilds

## Properties

| Name | Value |
|------|-------|
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Event | DELETE |
| Timing | BEFORE |
| Follows | |
| Precedes | |
| Created | 11/6/2024 11:06:04 |

## SQL Script

```
CREATE
DEFINER = 'root'
TRIGGER deleteConfigurationsChilds
BEFORE DELETE
ON specification
FOR EACH ROW
BEGIN

  DECLARE childsCount int UNSIGNED;

  SELECT
    COUNT(*) INTO childsCount
  FROM specification_configuration sc
  WHERE sc.specification = OLD.id;

  IF childsCount > 0 THEN
    DELETE LOW_PRIORITY QUICK
      FROM specification_configuration sc
    WHERE sc.specification = OLD.id;

  END IF;

END
```

## Depends On ②

⊞ specification
⊞ specification_configuration

## Used By

No items found

# ⚡ deleteMaterialChilds

## Properties

| Name | Value |
| --- | --- |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Event | DELETE |
| Timing | BEFORE |
| Follows | |
| Precedes | |
| Created | 11/6/2024 11:06:04 |

## SQL Script

```
CREATE
DEFINER = 'root'
TRIGGER deleteMaterialChilds
BEFORE DELETE
ON material
FOR EACH ROW
BEGIN

  DECLARE childsCount int UNSIGNED;

  SELECT
    COUNT(*) INTO childsCount
  FROM specification s
  WHERE s.material = OLD.id;

  IF childsCount > 0 THEN
    DELETE LOW_PRIORITY QUICK
      FROM specification s
    WHERE s.material = OLD.id;

  END IF;

  SELECT
    COUNT(*) INTO childsCount
  FROM material_has_standard mhs
  WHERE mhs.material = OLD.id;

  IF childsCount > 0 THEN
    DELETE LOW_PRIORITY QUICK
      FROM material_has_standard mhs
    WHERE mhs.material = OLD.id;

  END IF;

END
```

## Depends On 3

▦ material
▦ specification
▦ material_has_standard

## Used By

No items found

# ⚡ deleteStandardChilds

## Properties

| Name | Value |
| --- | --- |
| Definer | root |
| SQL Mode | NO_AUTO_VALUE_ON_ZERO |
| Event | DELETE |
| Timing | BEFORE |
| Follows | |
| Precedes | |
| Created | 11/6/2024 11:06:04 |

## SQL Script

```sql
CREATE
DEFINER = 'root'
TRIGGER deleteStandardChilds
BEFORE DELETE
ON standard
FOR EACH ROW
BEGIN

  DECLARE elements int UNSIGNED;

  SELECT
    COUNT(*) INTO elements
  FROM endcap e
  WHERE e.standard = OLD.id;

  IF elements > 0 THEN
    DELETE LOW_PRIORITY QUICK
      FROM endcap e
    WHERE e.standard = OLD.id;
  END IF;

  SELECT
    COUNT(*) INTO elements
  FROM conditional_period cp
  WHERE cp.standard = OLD.id;

  IF elements > 0 THEN
    DELETE LOW_PRIORITY QUICK
      FROM conditional_period cp
    WHERE cp.standard = OLD.id;
  END IF;

  SELECT
    COUNT(*) INTO elements
  FROM enviroment e
  WHERE e.standard = OLD.id;

  IF elements > 0 THEN
    DELETE LOW_PRIORITY QUICK
      FROM enviroment e
    WHERE e.standard = OLD.id;
  END IF;

  SELECT
    COUNT(*) INTO elements
  FROM test_type tt
  WHERE tt.standard = OLD.id;

  IF elements > 0 THEN
```

```
        DELETE LOW_PRIORITY QUICK
          FROM test_type tt
        WHERE tt.standard = OLD.id;
    END IF;

    SELECT
      COUNT(*) INTO elements
    FROM material_has_standard mhs
    WHERE mhs.standard = OLD.id;

    IF elements > 0 THEN
        DELETE LOW_PRIORITY QUICK
          FROM material_has_standard mhs
        WHERE mhs.standard = OLD.id;
    END IF;

  END
```

## Depends On ⑥

⊞ standard

⊞ endcap

⊞ conditional_period

⊞ enviroment

⊞ test_type

⊞ material_has_standard

## Used By

No items found

## 📁 Users

### Objects ③

🔒 dataCollector@%
🔒 databaseManager@%
🔒 reportGenerator@%

## 📁 Users

### Objects ③

🔒 dataCollector@%

# 🔒 dataCollector@%

## Object Level Permissions 16

| Type | Action | Object Name | Object Type |
|------|--------|-------------|-------------|
| Grant | EXECUTE | countspecimens | Procedure |
| Grant | EXECUTE | getspecimendata | Procedure |
| Grant | EXECUTE | insertdata | Procedure |
| Grant | EXECUTE | insertsample | Procedure |
| Grant | EXECUTE | insertspecimen | Procedure |
| Grant | EXECUTE | selectconditionalperiods | Procedure |
| Grant | EXECUTE | selectendcaps | Procedure |
| Grant | EXECUTE | selectenviroment | Procedure |
| Grant | EXECUTE | selectmaterials | Procedure |
| Grant | EXECUTE | selectoperators | Procedure |
| Grant | EXECUTE | selectsampleid | Procedure |
| Grant | EXECUTE | selectsettingsspecification | Procedure |
| Grant | EXECUTE | selectspecifications | Procedure |
| Grant | EXECUTE | selectstandards | Procedure |
| Grant | EXECUTE | selectstandarscomplete | Procedure |
| Grant | EXECUTE | selecttesttype | Procedure |

## Default Roles

No items found

## SQL Script

```
CREATE USER 'dataCollector'@'%' IDENTIFIED WITH mysql_native_password PASSWORD EXPIRE NEVER;
GRANT EXECUTE ON PROCEDURE data_db.countspecimens TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE data_db.getspecimendata TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE data_db.insertdata TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE data_db.insertsample TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE data_db.insertspecimen TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectconditionalperiods TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectendcaps TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectenviroment TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectmaterials TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectoperators TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE data_db.selectsampleid TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectsettingsspecification TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectspecifications TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectstandards TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectstandarscomplete TO 'dataCollector'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selecttesttype TO 'dataCollector'@'%';
```

# 🔐 databaseManager@%

## Object Level Permissions 38

| Type | Action | Object Name | Object Type |
|------|--------|-------------|-------------|
| Grant | EXECUTE | deleteconditionalperiod | Procedure |
| Grant | EXECUTE | deleteendcap | Procedure |
| Grant | EXECUTE | deleteenviroment | Procedure |
| Grant | EXECUTE | deletematerial | Procedure |
| Grant | EXECUTE | deleteoperator | Procedure |
| Grant | EXECUTE | deleterelatedmaterial | Procedure |
| Grant | EXECUTE | deletespecification_configuration | Procedure |
| Grant | EXECUTE | deletespecification | Procedure |
| Grant | EXECUTE | deletestandard | Procedure |
| Grant | EXECUTE | deletetesttype | Procedure |
| Grant | EXECUTE | insertconditionalperiod | Procedure |
| Grant | EXECUTE | insertendcap | Procedure |
| Grant | EXECUTE | insertenviroment | Procedure |
| Grant | EXECUTE | insertmaterial | Procedure |
| Grant | EXECUTE | insertoperator | Procedure |
| Grant | EXECUTE | insertrelatedmaterial | Procedure |
| Grant | EXECUTE | insertspecification_configuration | Procedure |
| Grant | EXECUTE | insertspecification | Procedure |
| Grant | EXECUTE | insertstandard | Procedure |
| Grant | EXECUTE | inserttesttype | Procedure |
| Grant | EXECUTE | selectconditionalperiods | Procedure |
| Grant | EXECUTE | selectendcaps | Procedure |
| Grant | EXECUTE | selectenviroment | Procedure |
| Grant | EXECUTE | selectmaterials | Procedure |
| Grant | EXECUTE | selectmaterialsjson | Procedure |
| Grant | EXECUTE | selectoperators | Procedure |
| Grant | EXECUTE | selectoperatorsjson | Procedure |
| Grant | EXECUTE | selectsettingsspecification | Procedure |
| Grant | EXECUTE | selectspecifications | Procedure |
| Grant | EXECUTE | selectstandards | Procedure |
| Grant | EXECUTE | selectstandardsjson | Procedure |
| Grant | EXECUTE | selectstandarscomplete | Procedure |
| Grant | EXECUTE | selecttesttype | Procedure |

| Grant | EXECUTE | updatematerial | | Procedure |
|-------|---------|-----------------------------|--|-----------|
| Grant | EXECUTE | updateoperator | | Procedure |
| Grant | EXECUTE | updatespecification_configuration | | Procedure |
| Grant | EXECUTE | updatespecification | | Procedure |
| Grant | EXECUTE | updatestandard | | Procedure |

## Role Privileges ❶

| Type | Object Name | Object Type | With Admin Option |
|------|-------------|-------------|-------------------|
| Grant | reporting@% | DatabaseRole | **False** |

## Default Roles ❶

reporting@%

## SQL Script

```sql
CREATE USER 'databaseManager'@'%' IDENTIFIED WITH mysql_native_password PASSWORD EXPIRE NEVER;
GRANT 'reporting'@'%' TO 'databaseManager'@'%';
SET DEFAULT ROLE 'reporting'@'%' TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deleteconditionalperiod TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deleteendcap TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deleteenviroment TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deletematerial TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deleteoperator TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deleterelatedmaterial TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deletespecification TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deletespecification_configuration TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deletestandard TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.deletetesttype TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertconditionalperiod TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertendcap TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertenviroment TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertmaterial TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertoperator TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertrelatedmaterial TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertspecification TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertspecification_configuration TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.insertstandard TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.inserttesttype TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectconditionalperiods TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectendcaps TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectenviroment TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectmaterials TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectmaterialsjson TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectoperators TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectoperatorsjson TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectsettingsspecification TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectspecifications TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectstandards TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectstandardsjson TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selectstandarscomplete TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.selecttesttype TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.updatematerial TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.updateoperator TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.updatespecification TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.updatespecification_configuration TO 'databaseManager'@'%';
GRANT EXECUTE ON PROCEDURE static_db.updatestandard TO 'databaseManager'@'%';
```

# 🔒 reportGenerator@%

## Global Permissions ❶

| Type | Action |
|------|--------|
| Grant | EXECUTE |

## Object Level Permissions ⑭

| Type | Action | Object Name | Object Type |
|------|--------|-------------|-------------|
| Grant | EXECUTE | countspecimens | Procedure |
| Grant | EXECUTE | deletetest | Procedure |
| Grant | EXECUTE | getspecimendata | Procedure |
| Grant | EXECUTE | insertdata | Procedure |
| Grant | EXECUTE | insertsample | Procedure |
| Grant | EXECUTE | insertspecimen | Procedure |
| Grant | EXECUTE | selectcomparetests | Procedure |
| Grant | EXECUTE | selectsample | Procedure |
| Grant | EXECUTE | selectsampleid | Procedure |
| Grant | EXECUTE | selectspecimen | Procedure |
| Grant | EXECUTE | selecttestdata | Procedure |
| Grant | EXECUTE | selecttest | Procedure |
| Grant | EXECUTE | selecttests | Procedure |
| Grant | EXECUTE | updatespecimen | Procedure |

## Default Roles

No items found

## SQL Script

```
CREATE USER 'reportGenerator'@'%' IDENTIFIED WITH mysql_native_password PASSWORD EXPIRE NEVER;
GRANT EXECUTE ON *.* TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.countspecimens TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.deletetest TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.getspecimendata TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.insertdata TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.insertsample TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.insertspecimen TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selectcomparetests TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selectsample TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selectsampleid TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selectspecimen TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selecttest TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selecttestdata TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.selecttests TO 'reportGenerator'@'%';
GRANT EXECUTE ON PROCEDURE stel_db_data.updatespecimen TO 'reportGenerator'@'%';
```