



# Pandore – Database developer guide

This document is a developer guide for the Pandore project database

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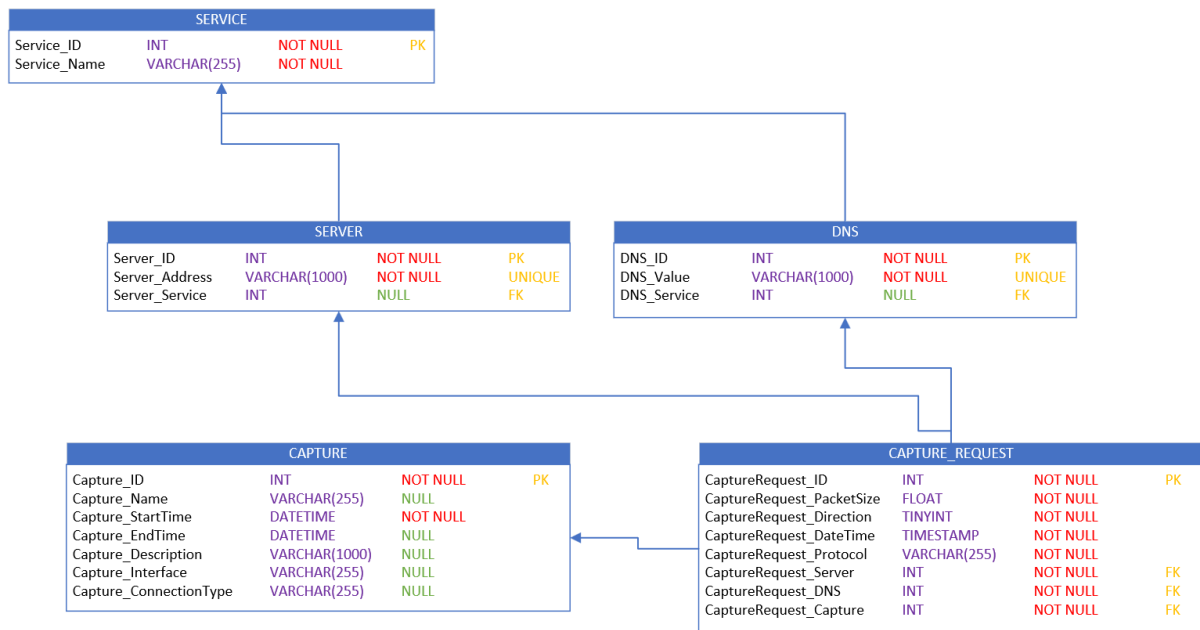
## 1. General informations

### 1.1. Server

The database server used for the Pandore project is **MariaDB Server 10.6.4**

### 1.2. Database architecture

The diagram below is a class diagram of the database architecture:



## 2. Table Service

### 2.1. Description

This table is used to identify the name of different services (ex : Facebook, Youtube, ...).

It consists of 2 attributes :

Name	Type	Allow NULL	Constraint	Description
Service_ID	INT		PK	Service ID
Service_Name	VARCHAR(255)		Unique	Service Name

## 2.2. Stored procedures

### 2.2.1. CreateService

#### 2.2.1.1. Description

This procedure allows to create a new service into the database

#### 2.2.1.2. Prototype

```
CreateService (IN Name VARCHAR(255))
```

#### 2.2.1.3. Parameters

Name	Type	Allow NULL	Description
Name	VARCHAR(255)		Service name

#### 2.2.1.4. Example

```
CALL CreateService("Facebook");
```

## 2.2.2. ReadAllServices

### 2.2.2.1. Description

This procedure allows to list all services in the database

### 2.2.2.2. Prototype

**ReadAllServices()**

### 2.2.2.3. Returns

Service list ordered alphabetically

```
MariaDB [pandore]> CALL ReadAllServices();
```

Service_ID	Service_Name
1	Facebook
3	Google
2	Youtube

### 2.2.2.4. Example

**CALL ReadAllServices();**

### 2.2.3. ReadServiceByID

#### 2.2.3.1. Description

This procedure allows to find a service in the database by its ID

#### 2.2.3.2. Prototype

**ReadServiceByID**(IN ID INT)

#### 2.2.3.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		Service ID to find

#### 2.2.3.4. Returns

The service found with the given ID

```
MariaDB [pandore]> CALL ReadServiceByID(1);
+-----+-----+
| Service_ID | Service_Name |
+-----+-----+
|          1 | Facebook     |
+-----+-----+
```

#### 2.2.3.5. Example

**CALL ReadServiceByID(1);**



## 2.2.4. ReadServiceByName

### 2.2.4.1. Description

This procedure allows to find a service by its name

### 2.2.4.2. Prototype

```
ReadServiceByName(IN Name VARCHAR(255))
```

### 2.2.4.3. Parameters

Name	Type	Allow NULL	Description
Name	VARCHAR(255)		Service name to find

### 2.2.4.4. Returns

Services found with the given service name

```
MariaDB [pandore]> CALL ReadServiceByName("Facebook");
+-----+-----+
| Service_ID | Service_Name |
+-----+-----+
|          1 | Facebook     |
+-----+-----+
```

### 2.2.4.5. Example

```
CALL ReadServiceByName("Facebook");
```

## 2.2.5. UpdateService

### 2.2.5.1. Description

This procedure allows to update an existing service

### 2.2.5.2. Prototype

```
UpdateService(IN ID INT, IN Name VARCHAR(255))
```

### 2.2.5.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		Service ID to update
Name	VARCHAR(255)		New service name

### 2.2.5.4. Example

```
CALL UpdateService(1, "Google");
```

## 2.2.6. DeleteServiceByID

### 2.2.6.1. Description

This procedure allows to delete a service by its ID

### 2.2.6.2. Prototype

**DeleteServiceByID** (**IN** ID **INT**)

### 2.2.6.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the service to delete

### 2.2.6.4. Example

**CALL DeleteServiceByID(1);**

## 2.2.7. DeleteServiceByName

### 2.2.7.1. Description

This procedure allows to delete a service by its name

### 2.2.7.2. Prototype

**DeleteServiceByName** (**IN** **Name** **VARCHAR**(255))

### 2.2.7.3. Parameters

Name	Type	Allow NULL	Description
Name	<b>VARCHAR</b> (255)		Name of the service to delete

### 2.2.7.4. Example

**CALL DeleteServiceByName**("Facebook");

### 3. Table Server

#### 3.1. Description

This table is used to identify different server addresses and associate them to services

It consists of 3 attributes :

Name	Type	Allow NULL	Constraint	Description
Server_ID	INT		Primary Key	Service ID
Server_Address	VARCHAR(1000)		Unique	Service Name
Server_Service	INT		Foreign Key	ID of the associated service

## 3.2. Stored procedures

### 3.2.1. CreateServer

#### 3.2.1.1. Description

This procedure allows to create a new server in the database

#### 3.2.1.2. Prototype

```
CreateServer(IN Address VARCHAR(1000), IN Service INT)
```

#### 3.2.1.3. Parameters

Name	Type	Allow NULL	Description
Address	VARCHAR(1000)		Address of the server
Service	INT		ID of the associated service

#### 3.2.1.4. Example

```
CALL CreateServer("10.135.20.32", 1);
```

### 3.2.2. ReadAllServers

#### 3.2.2.1. Description

This procedure allows to list all servers in the database

#### 3.2.2.2. Prototype

**ReadAllServers()**

#### 3.2.2.3. Returns

Server list ordered alphabetically

```
MariaDB [pandore]> CALL ReadAllServers();
```

Server_ID	Server_Address	Server_Service
2	10.135.20.31	1
3	10.135.20.37	1
4	125.15.02.171	2

#### 3.2.2.4. Example

**CALL ReadAllServices();**

### 3.2.3. ReadServersByServiceID

#### 3.2.3.1. Description

This procedure allows to list all servers for a given service

#### 3.2.3.2. Prototype

**ReadServersByServiceID**(IN Service INT)

#### 3.2.3.3. Parameters

Name	Type	Allow NULL	Description
Service	INT		ID of the service

#### 3.2.3.4. Returns

List of servers associated to given service

```
MariaDB [pandore]> CALL ReadServersByServiceID(1);
+-----+-----+-----+
| Server_ID | Server_Address | Server_Service |
+-----+-----+-----+
|      2   | 10.135.20.31  |      1        |
|      3   | 10.135.20.37  |      1        |
+-----+-----+-----+
```

#### 3.2.3.5. Example

**CALL** ReadServersByServiceID(1);



### 3.2.4. ReadServerByID

#### 3.2.4.1. Description

This procedure allows to find a server by its ID

#### 3.2.4.2. Prototype

**ReadServerByID**(IN ID INT)

#### 3.2.4.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the server

#### 3.2.4.4. Returns

Server found with given ID

```
MariaDB [pandore]> CALL ReadServerByID(2);
+-----+-----+-----+
| Server_ID | Server_Address | Server_Service |
+-----+-----+-----+
|          2 | 10.135.20.31   |                1 |
+-----+-----+-----+
```

#### 3.2.4.5. Example

**CALL ReadServerByID(1);**

### 3.2.5. ReadServerByAddress

#### 3.2.5.1. Description

This procedure allows to find a server by its address

#### 3.2.5.2. Prototype

**ReadServerByAddress**(IN Address VARCHAR(1000))

#### 3.2.5.3. Parameters

Name	Type	Allow NULL	Description
Address	VARCHAR(1000)		Address of the server

#### 3.2.5.4. Returns

Server found with given address

```
MariaDB [pandore]> CALL ReadServerByAddress("10.135.20.31");
+-----+-----+-----+
| Server_ID | Server_Address | Server_Service |
+-----+-----+-----+
|          2 | 10.135.20.31  |                1 |
+-----+-----+-----+
```

#### 3.2.5.5. Example

**CALL** ReadServerByAddress("10.135.20.31");

### 3.2.6. UpdateServer

#### 3.2.6.1. Description

This procedure allows to update a server

#### 3.2.6.2. Prototype

```
UpdateServer(IN ID INT, IN Address VARCHAR(1000), IN Service INT)
```

#### 3.2.6.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the server to update
Address	VARCHAR(1000)		New server address
Service	INT		New service ID

#### 3.2.6.4. Example

```
CALL UpdateServer(1, "147.112.200.11", 2);
```

### 3.2.7. DeleteServerByID

#### 3.2.7.1. Description

This procedure allows to delete a server by its ID

#### 3.2.7.2. Prototype

**DeleteServerByID**(IN ID INT)

#### 3.2.7.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the server to delete

#### 3.2.7.4. Example

**CALL DeleteServerByID(1);**

### 3.2.8. DeleteServerByAddress

#### 3.2.8.1. Description

This procedure allows to delete a server by its address

#### 3.2.8.2. Prototype

```
DeleteServerByAddress(IN Address VARCHAR(1000))
```

#### 3.2.8.3. Parameters

Name	Type	Allow NULL	Description
Address	VARCHAR(1000)		Address of the server to delete

#### 3.2.8.4. Example

```
CALL DeleteServerByAddress("10.135.20.31");
```

### 3.2.9. DeleteServerByServiceID

#### 3.2.9.1. Description

This procedure allows to delete servers associated to given service

#### 3.2.9.2. Prototype

**DeleteServerByServiceID**(IN Service INT)

#### 3.2.9.3. Parameters

Name	Type	Allow NULL	Description
Service	INT		ID of the service where servers must be deleted

#### 3.2.9.4. Example

**CALL DeleteServerByServiceID(1);**

## 4. Table DNS

### 4.1. Description

This table is used to identify different DNS and associate them to services

It consists of 3 attributes :

Name	Type	Allow NULL	Constraint	Description
DNS_ID	INT		Primary Key	DNS ID
DNS_Value	VARCHAR(1000)		Unique	DNS Name
DNS_Service	INT		Foreign Key	ID of the associated service

## 4.2. Stored procedures

### 4.2.1. CreateDNS

#### 4.2.1.1. Description

This procedure allows to create a new DNS in the database

#### 4.2.1.2. Prototype

```
CreateDNS(IN Value VARCHAR(1000), IN Service INT)
```

#### 4.2.1.3. Parameters

Name	Type	Allow NULL	Description
Value	VARCHAR(1000)		Value of the DNS
Service	INT		ID of the associated service

#### 4.2.1.4. Example

```
CALL CreateDNS('my.dns.com', 1);
```



## 4.2.2. ReadAllDNS

### 4.2.2.1. Description

This procedure allows to list all DNS in the database

### 4.2.2.2. Prototype

```
ReadAllDNS();
```

### 4.2.2.3. Returns

DNS list ordered alphabetically

```
MariaDB [pandore]> CALL ReadAllDNS();
```

DNS_ID	DNS_Value	DNS_Service
1	my.facebook.com	1
2	my.youtube.com	NULL

### 4.2.2.4. Example

```
CALL ReadAllDNS();
```

### 4.2.3. ReadDNSByServiceID

#### 4.2.3.1. Description

This procedure allows to list all DNS for a given service

#### 4.2.3.2. Prototype

`ReadDNSByServiceID(IN Service INT)`

#### 4.2.3.3. Parameters

Name	Type	Allow NULL	Description
Service	INT		ID of the service

#### 4.2.3.4. Returns

List of DNS associated to given service

```
MariaDB [pandore]> CALL ReadDNSByServiceID(1);
+-----+-----+-----+
| DNS_ID | DNS_Value      | DNS_Service |
+-----+-----+-----+
|      1 | my.facebook.com |           1 |
+-----+-----+-----+
```

#### 4.2.3.5. Example

`CALL ReadDNSByServiceID(1);`

#### 4.2.4. ReadDNSByID

##### 4.2.4.1. Description

This procedure allows to find a DNS by its ID

##### 4.2.4.2. Prototype

`ReadDNSByID(IN ID INT)`

##### 4.2.4.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the DNS

##### 4.2.4.4. Returns

DNS found with given ID

```
MariaDB [pandore]> CALL ReadDNSByID(1);
+-----+-----+-----+
| DNS_ID | DNS_Value      | DNS_Service |
+-----+-----+-----+
|      1 | my.facebook.com |           1 |
+-----+-----+-----+
```

##### 4.2.4.5. Example

`CALL ReadDNSByID(1);`

## 4.2.5. ReadServerByAddress

### 4.2.5.1. Description

This procedure allows to find a DNS by its value

### 4.2.5.2. Prototype

```
ReadDNSByValue(IN Value VARCHAR(1000))
```

### 4.2.5.3. Parameters

Name	Type	Allow NULL	Description
Address	VARCHAR(1000)		Value of the DNS

### 4.2.5.4. Returns

DNS found with given value

```
MariaDB [pandore]> CALL ReadDNSByValue('my.facebook.com');
+-----+-----+-----+
| DNS_ID | DNS_Value      | DNS_Service |
+-----+-----+-----+
|      1 | my.facebook.com |           1 |
+-----+-----+-----+
```

### 4.2.5.5. Example

```
CALL ReadDNSByValue('my.facebook.com');
```

## 4.2.6. UpdateDNS

### 4.2.6.1. Description

This procedure allows to update a DNS

### 4.2.6.2. Prototype

```
UpdateDNS(IN ID INT, IN Value VARCHAR(1000), IN Service INT)
```

### 4.2.6.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the DNS to update
Value	VARCHAR(1000)		New DNS address
Service	INT		New service ID

### 4.2.6.4. Example

```
CALL UpdateDNS(1, 'my.new.dns', 2);
```

## 4.2.7. DeleteDNSByID

### 4.2.7.1. Description

This procedure allows to delete a DNS by its ID

### 4.2.7.2. Prototype

**DeleteDNSByID**(IN ID INT)

### 4.2.7.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the DNS to delete

### 4.2.7.4. Example

**CALL DeleteDNSByID**(1);

## 4.2.8. DeleteDNSByValue

### 4.2.8.1. Description

This procedure allows to delete a DNS by its value

### 4.2.8.2. Prototype

```
DeleteDNSByValue(IN Value VARCHAR(1000))
```

### 4.2.8.3. Parameters

Name	Type	Allow NULL	Description
Value	VARCHAR(1000)		Value of the DNS to delete

### 4.2.8.4. Example

```
CALL DeleteDNSByValue('my.dns.todelete.com');
```

## 4.2.9. DeleteDNSByServiceID

### 4.2.9.1. Description

This procedure allows to delete DNSs associated to given service

### 4.2.9.2. Prototype

**DeleteDNSByServiceID**(**IN** Service **INT**)

### 4.2.9.3. Parameters

Name	Type	Allow NULL	Description
Service	INT		ID of the service where DNSs must be deleted

### 4.2.9.4. Example

**CALL DeleteDNSByServiceID**(1);



## 5. Table Capture

### 5.1. Description

This table is used to identify captures done on a device

It consists of 7 attributes :

Name	Type	Allow NULL	Constraint	Description
Capture_ID	INT		Primary Key	Capture ID
Capture_Name	VARCHAR(255)	x		Capture Name
Capture_StartTime	DATETIME			Capture start time. Format : yyyy-MM-dd HH:mm:ss
Capture_EndTime	DATETIME	x		Capture end time. Format : yyyy-MM-dd HH:mm:ss
Capture_Description	VARCHAR(1000)	x		Capture description
Capture_Interface	VARCHAR(255)	x		Capture interface (eth0, eth1, etc...)
Capture_ConnectionType	VARCHAR(255)	x		Connection type description

## 5.2. Stored procedures

### 5.2.1. CreateCapture

#### 5.2.1.1. Description

This procedure allows to create a new capture in the database

#### 5.2.1.2. Prototype

```
CreateCapture(IN Name VARCHAR(255), IN StartTime DATETIME, IN EndTime DATETIME,  
             IN Description VARCHAR(1000), IN Interface VARCHAR(1000), IN ConnectionType VARCHAR(1000))
```

#### 5.2.1.3. Parameters

Name	Type	Allow NULL	Description
Name	VARCHAR(255)	x	Capture Name
StartTime	DATETIME		Capture start time. Format : yyyy-MM-dd HH:mm:ss
EndTime	DATETIME	x	Capture end time. Format : yyyy-MM-dd HH:mm:ss
Description	VARCHAR(1000)	x	Capture description
Interface	VARCHAR(255)	x	Capture interface (eth0, eth1, etc...)
ConnectionType	VARCHAR(255)	x	Connection type description

#### 5.2.1.4. Example

```
CALL CreateCapture("My new capture", "2021-10-09 14:37:12", NULL,  
                  "My description", "eth0", NULL);
```

## 5.2.2. ReadAllCaptures

### 5.2.2.1. Description

This procedure allows to list all captures

### 5.2.2.2. Prototype

**ReadAllCaptures()**

### 5.2.2.3. Returns

List of all captures

```
MariaDB [pandore]> CALL ReadAllCaptures();
```

Capture_ID	Capture_Name	Capture_StartTime	Capture_EndTime	Capture_Description	Capture_Interface	Capture_ConnectionType
1	My new capture	2020-06-03 14:36:21	2020-06-03 17:42:45	Capture to test my application traffic	eth1	NULL
2	NULL	2021-10-10 13:40:01	NULL	NULL	NULL	NULL

### 5.2.2.4. Example

**CALL ReadAllCaptures();**

### 5.2.3. ReadCaptureByID

#### 5.2.3.1. Description

This procedure allows to find a capture by its ID

#### 5.2.3.2. Prototype

**ReadCaptureByID**(IN ID INT)

#### 5.2.3.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		Capture ID

#### 5.2.3.4. Returns

The capture found with given ID

```
MariaDB [pandore]> CALL ReadCaptureByID(1);
```

Capture_ID	Capture_Name	Capture_StartTime	Capture_EndTime	Capture_Description	Capture_Interface	Capture_ConnectionType
1	My new capture	2020-06-03 14:36:21	2020-06-03 17:42:45	Capture to test my application traffic	eth1	NULL

#### 5.2.3.5. Example

**CALL ReadAllCaptures();**

## 5.2.4. UpdateCapture

### 5.2.4.1. Description

This procedure allows to update a capture by its ID

### 5.2.4.2. Prototype

```
CREATE PROCEDURE UpdateCapture(IN ID INT, IN Name VARCHAR(255), IN StartTime DATETIME, IN EndTime DATETIME,  
IN Description VARCHAR(1000), IN Interface VARCHAR(1000), IN ConnectionType VARCHAR(1000))
```

### 5.2.4.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the capture to update
Name	VARCHAR(255)	x	New capture name
StartTime	DATETIME		New capture start time. Format : yyyy-MM-dd HH:mm:ss
EndTime	DATETIME	x	New capture end time. Format : yyyy-MM-dd HH:mm:ss
Description	VARCHAR(1000)	x	New capture description
Interface	VARCHAR(255)	x	New capture interface (eth0, eth1, etc...)
ConnectionType	VARCHAR(255)	x	New connection type description

### 5.2.4.4. Example

```
CALL UpdateCapture(1, "My new capture name", "2021-10-09 14:37:12", NULL,  
"My new description", "eth0", NULL);
```

## 5.2.5. DeleteCaptureByID

### 5.2.5.1. Description

This procedure allows to delete a capture by its ID

### 5.2.5.2. Prototype

**DeleteCaptureByID**(IN ID INT)

### 5.2.5.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the capture to delete

### 5.2.5.4. Example

**CALL** DeleteCaptureByID(1);

## 6. Table Capture\_Request

### 6.1. Description

This table is used to identify requests for a specific capture

It consists of 8 attributes :

Name	Type	Allow NULL	Constraint	Description
CaptureRequest_ID	INT		Primary Key	Capture request ID
CaptureRequest_PacketSize	FLOAT			Size of the packet
CaptureRequest_Direction	TINYINT			Packet direction (0 = download, 1 = upload)
CaptureRequest_DateTime	TIMESTAMP			Request date time. Format : yyyy-MM-dd HH:mm:ss
CaptureRequest_Protocol	VARCHAR(255)			Request protocol description
CaptureRequest_Server	INT		Foreign Key	ID of the server
CaptureRequest_DNS	INT		Foreign Key	ID of the DNS
CaptureRequest_Capture	INT		Foreign Key	ID of the capture

## 6.2. Stored procedures

### 6.2.1. CreateRequest

#### 6.2.1.1. Description

This procedure allows to create a new capture request in the database

#### 6.2.1.2. Prototype

```
CreateRequest(IN PacketSize FLOAT, IN Direction TINYINT(1), IN Protocol VARCHAR(255),  
IN Server INT, IN DNS INT, IN Capture INT)
```

#### 6.2.1.3. Parameters

Name	Type	Allow NULL	Description
PacketSize	FLOAT		Size of the packet
Direction	TINYINT		Packet direction (0 = download, 1 = upload)
Protocol	VARCHAR(255)		Request protocol description
Server	INT		ID of the server
DNS	INT		ID of the DNS
Capture	INT		ID of the capture

#### 6.2.1.4. Example

```
CALL CreateRequest(17, 0, 'TCP', 1, 1, 1);
```



## 6.2.2. CreateRequestString

### 6.2.2.1. Description

This procedure allows to create a new capture request in the database without knowing the id of the DNS and the server but only their values.

### 6.2.2.2. Prototype

```
CreateRequestString(IN PacketSize FLOAT, IN Direction TINYINT(1), IN Protocol VARCHAR(255),  
IN Server VARCHAR(1000), IN DNS VARCHAR(1000), IN Capture INT)
```

### 6.2.2.3. Parameters

Name	Type	Allow NULL	Description
PacketSize	FLOAT		Size of the packet
Direction	TINYINT		Packet direction (0 = download, 1 = upload)
Protocol	VARCHAR(255)		Request protocol description
Server	VARCHAR(1000)		Server address
DNS	VARCHAR(1000)		DNS value
Capture	INT		ID of the capture

### 6.2.2.4. Example

```
CALL CreateRequestString(17, 0, 'TCP', '10.135.20.32', 'dns.name.com', 1);
```

## 6.2.3. ReadAllRequests

### 6.2.3.1. Description

This procedure allows to list all capture requests

### 6.2.3.2. Prototype

**ReadAllRequests()**

### 6.2.3.3. Returns

List of all capture requests

```
ManiaDB [pandora]> CALL ReadAllRequests();
```

CaptureRequest_ID	CaptureRequest_PacketSize	CaptureRequest_Direction	CaptureRequest_DateTime	CaptureRequest_Protocol	CaptureRequest_Server	CaptureRequest_DNS	CaptureRequest_Capture
3	10	0	2021-10-21 16:40:06	TCP	1	2	1
2	10	0	2021-10-21 16:39:36	TCP	2	1	1
1	10	0	2021-10-21 16:39:10	TCP	1	1	1

### 6.2.3.4. Example

**CALL ReadAllRequests();**

## 6.2.4. ReadRequestsByCaptureID

### 6.2.4.1. Description

This procedure allows to list all requests for a given capture

### 6.2.4.2. Prototype

**ReadRequestsByCaptureID**(**IN** Capture **INT**)

### 6.2.4.3. Parameters

Name	Type	Allow NULL	Description
Capture	INT		ID of the capture

### 6.2.4.4. Returns

List of all capture requests for the given capture ID

```
MariaDB [pandora]> CALL ReadRequestsByCaptureID(1);
```

CaptureRequest_ID	CaptureRequest_PacketSize	CaptureRequest_Direction	CaptureRequest_DateTime	CaptureRequest_Protocol	CaptureRequest_Server	CaptureRequest_DNS	CaptureRequest_Capture
1	10	0	2021-10-21 16:39:10	TCP	1	1	1
2	10	0	2021-10-21 16:39:36	TCP	2	1	1
3	10	0	2021-10-21 16:40:06	TCP	1	2	1

### 6.2.4.5. Example

**CALL** ReadRequestsByCaptureID(**1**);

## 6.2.5. ReadRequestByID

### 6.2.5.1. Description

This procedure allows to find a request by its ID

### 6.2.5.2. Prototype

**ReadRequestByID**(**IN** ID **INT**)

### 6.2.5.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the request to update

### 6.2.5.4. Returns

The request found for the given request ID

```
MariaDB [pandora]> CALL ReadRequestByID(1);
```

CaptureRequest_ID	CaptureRequest_PacketSize	CaptureRequest_Direction	CaptureRequest_DateTime	CaptureRequest_Protocol	CaptureRequest_Server	CaptureRequest_DNS	CaptureRequest_Capture
1	10	0	2021-10-21 16:39:10	TCP	1	1	1

### 6.2.5.5. Example

**CALL** ReadRequestByID(**1**);

## 6.2.6. UpdateRequest

### 6.2.6.1. Description

This procedure allows to update an existing capture request

### 6.2.6.2. Prototype

```
UpdateRequest(IN ID INT, IN PacketSize FLOAT, IN Direction TINYINT(1), IN DateTime TIMESTAMP,  
IN Protocol VARCHAR(255), IN Server INT, IN DNS INT, IN Capture INT)
```

### 6.2.6.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the request to update
PacketSize	FLOAT		New packet size
Direction	TINYINT		New packet direction (0 = download, 1 = upload)
DateTime	TIMESTAMP		New request date time. Format : yyyy-MM-dd HH:mm:ss
Protocol	VARCHAR(255)		New protocol description
Server	INT		ID of the new server
DNS	INT		ID of the new DNS
Capture	INT		ID of the new capture

### 6.2.6.4. Example

```
CALL CreateRequest(1, 17, 0, '2021-11-27 14:08:30', 'TCP', 1, 1, 1);
```

## 6.2.7. DeleteRequestByID

### 6.2.7.1. Description

This procedure allows to delete a capture request by its ID

### 6.2.7.2. Prototype

**DeleteRequestByID**(**IN** ID **INT**)

### 6.2.7.3. Parameters

Name	Type	Allow NULL	Description
ID	INT		ID of the capture request to delete

### 6.2.7.4. Example

**CALL** DeleteRequestByID(**1**);

## 6.2.8. DeleteRequestByCaptureID

### 6.2.8.1. Description

This procedure allows to delete all requests for a given capture

### 6.2.8.2. Prototype

**DeleteRequestByCaptureID**(IN Capture INT)

### 6.2.8.3. Parameters

Name	Type	Allow NULL	Description
Capture	INT		ID of the capture

### 6.2.8.4. Example

```
CALL DeleteRequestByCaptureID(1);
```