ORACLE BACKUP METRICS

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Version 1.0

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# Aim:

To design an alerting system which report and create incidents based on backup that has not run for a specific period of days and also to make sure that a incident is created only once a day.

# Object information

**Schema:** DBIMGR

**Table:**

This design uses only one table which is

DBI\_ALERT\_GENERATION - This is a system used table i.e the table that the procedure DBI\_ALERT\_REPORT\_BKUP\_P use to store the entire alert that has generated throughout the day, it table also make sure that only one alert been created in a day.

**Procedure:**

DBI\_ALERT\_REPORT\_BKUP\_P - The design has a single procedure that generate, stores as well as reports with an incident in case the last backup has crossed a defined parameter value.

# 3.0 Table

## 3.1 DBI\_ALERT\_GENERATION

### 3.1.1 Column information

OBJECT\_TYPE VARCHAR2 (100 BYTE) NOT NULL

OBJECT\_NAME VARCHAR2 (200 BYTE) NOT NULL

ALERT\_TIME DATE DEFAULT sysdate NOT NULL

ALERT\_INTERVAL NUMBER DEFAULT 24 NOT NULL

ALERT\_THRESHOLD NUMBER DEFAULT 75 NOT NULL

**OBJECT\_TYPE** – This column identifies the alert that has reached the threshold via a object\_type which is generated based on the alert mechanism from the procedure DBI\_ALERT\_REPORT\_BKUP\_P.

**OBJECT\_NAME** – Based on the object\_type information a name for a enabled alert is stored .

**ALERT\_TIME** - The time when the alert was generated.

**ALERT\_INTERVAL** - The alert interval time when the next alert should be generated.

**ALERT\_THRESHOLD** - The Threshold for which the alert has been created, this information is extracted based on the number of days it has not run.

# 4.0 Procedure

## 4.1 DBI\_ALERT\_REPORT\_BKUP\_P

When was the last backup run, as it crossed the parameter defined for the check?

### 4.1.1. Flowchart

Read the data from v$rman\_status on the number of days and the date when the last backup was taken based on the observartion parameter defined

Start

Yes No

Generate alert and update/insert in table dbi\_metric\_alert\_generation

Has the alert generated in the day

### 

### yes

### 

Get the last run date as well as the number of days of the backup run

### 

### No yes

### yes

### yes

Stop

### 4.1.2. Parameters

The number of day since the last run.

### 4.1.3. Dependencies

V$rman\_status

Dbi\_alert\_generation

### 4.1.4. Dependent objects

None

# 5.0 Drawback

The procedure work from the version the 10.2.0.2 since the view v$rman\_status is supported only by this version

# 6.0 conclusion

1. DBI \_ALERT\_GENERATION is the store house of all the alerts that has been generated throughout the day and it also makes sure that one alert is generated per day.
2. DBI\_ALERT\_REPORT\_BKUP\_P is the main procedure, which calls the above two procedure as well as reports/alerts on any alerts that has crossed the defined threshold. And it accepts one parameter which is the number of day.