**UDIS脚本规范**

1. **大小写规范**：脚本的SQL语句全部大写字母。
2. **要有注释**：每个脚本要有注释，见模板。

新增表和字段，要增加注释，说明其含义，例如COMMENT ON COLUMN APP\_AUTHORITY.ROLE\_ID IS 'ROLE ID';

1. **3\_CreatOthers脚本命名规范**：序号\_对象名称\_Unique.sql

其中对象名称：

Function：FUN

Procedure：PRO

Table：TAB

View：VIEW

Sequence：SEQ

分区表：PART

Job：JOB

EVENT：EVENT

每个对象名称都对应一个脚本文件，不要一个脚本文件包含多个。

1. **长度规范**：每个对象名称的标识符长度不能超过30个字符。
2. 对于Init Data的脚本，如果现场要求不能TRUNCATE，又新增初始化数据时，写INSERT语句的时候也要增加是否存在该条记录的容错语句。
3. 不建议使用工具从数据库中直接导出脚本，如需导出，建议使用EXP命令导出。导出脚本一定要注意格式，否则可能会出现不同数据库环境中执行不成功的问题。如所有对象都不要带用户名前缀，属性不需要带””。视图不要带可编辑状态。
4. **升级脚本命名规范**：YYYYMMDD\_脚本描述\_项目/Unique.sql

其中YYYYMMDD为脚本日期，项目/Unique用来区分是项目专用还是公用。

如20190527\_MODIFY\_REGISTER\_STATE\_Unique.sql

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1. **脚本执行顺序**

脚本默认是按日期先后执行，如果脚本有执行先后顺序，请通过日期控制先后顺序，或将相关脚本写在一个升级脚本里。

1. **项目统一后缀**：

维也纳：WN，Tinetz: TINZ，Welsstrom：WELS，KNG:KNG，瑞士：SWCH，埃及：EEHC，巴西：BR，墨西哥：MX，卡塔尔：QA，巴勒斯坦：BL，Zimbabwe：ZW

1. **字段长度只能改大，不能改小。**
2. **分区表不能创建主键约束。**
3. **新增分区表**需同时在3\_CreatOthers的405\_PRO\_CREATE\_PARTION\_TABLES.sql存储过程中增加定时创建月表的语句。（与02\_PART\_CREATE\_PARTITION\_TABLES表中创建的分区表一致）。
4. **不能更新（修改字段类型，长度，删除）有约束关系（主键/外键）的字段。**
5. **常用SQL条件执行语法**如下，主要是增删table/index/constraint/column，修改字段长度，设置非空约束等。

注：每个DECLARE最后都要带/.

1. **Create table**

DECLARE

NUM NUMBER;

BEGIN

SELECT COUNT(1)

INTO NUM

FROM USER\_TABLES

WHERE TABLE\_NAME = UPPER('OMS\_SPECIAL\_DAY');

IF NUM = 0 THEN

EXECUTE IMMEDIATE 'CREATE TABLE "OMS\_SPECIAL\_DAY"

( "DAY\_SEQ" NUMBER(10,0),

"BEGIN\_TV" NUMBER(10,0),

"END\_TV" NUMBER(10,0)

)';

END IF;

END;

/

Note: Drop table is NUM=1

1. **Create Index**

DECLARE

NUM NUMBER;

BEGIN

SELECT COUNT(1)

INTO NUM

FROM USER\_INDEXES

WHERE TABLE\_NAME = UPPER('OMS\_SPECIAL\_DAY') AND INDEX\_NAME= UPPER('IDX\_OMS\_SPECIAL\_DAY');

IF NUM = 0 THEN

EXECUTE IMMEDIATE 'CREATE UNIQUE INDEX "IDX\_OMS\_SPECIAL\_DAY" ON "OMS\_SPECIAL\_DAY" ("DAY\_SEQ")';

END IF;

End;

**/**

Note: Drop index is NUM=1

1. **Add column**

DECLARE

NUM NUMBER;

BEGIN

SELECT COUNT(1)

INTO NUM

FROM COLS

WHERE TABLE\_NAME = UPPER('M\_USER') AND COLUMN\_NAME = UPPER('USER\_TYPE');

IF NUM = 0 THEN

EXECUTE IMMEDIATE 'ALTER TABLE M\_USER ADD USER\_TYPE NUMBER(2,0) DEFAULT 1';

END IF;

END;

/

Note: Drop column is NUM=1

1. **Modify Column NOT NULL**

DECLARE

NUM CHAR;

BEGIN

SELECT NULLABLE

INTO NUM

FROM COLS

WHERE TABLE\_NAME = UPPER('MG\_SPECIAL\_DAY') AND COLUMN\_NAME = UPPER('DAY\_ID');

IF NUM = 'Y' THEN

EXECUTE IMMEDIATE 'ALTER TABLE MG\_SPECIAL\_DAY MODIFY DAY\_ID DEFAULT 1 NOT NULL ';

END IF;

END;

/

Note: Modify NULL is NUM='N'

1. **Modify column length**

DECLARE

NUM NUMBER;

BEGIN

SELECT CHAR\_LENGTH

INTO NUM

FROM COLS

WHERE TABLE\_NAME = UPPER('RD\_PVC2\_I') AND COLUMN\_NAME = UPPER('VAL\_C');

IF NUM < 12 THEN

EXECUTE IMMEDIATE 'ALTER TABLE RD\_PVC2\_I MODIFY (VAL\_C NUMBER(12, 4))';

END IF;

END;

/

Note: Please check max(length(column\_name)) at first.

1. **Modify column precision**

DECLARE

NUM NUMBER;

BEGIN

SELECT DATA\_PRECISION

INTO NUM

FROM COLS

WHERE TABLE\_NAME = UPPER('M\_METER\_TEMP') AND COLUMN\_NAME = UPPER('REGISTER\_STATE');

IF NUM < 4 THEN

EXECUTE IMMEDIATE 'ALTER TABLE M\_METER\_TEMP MODIFY(REGISTER\_STATE NUMBER(4,0) DEFAULT 0)';

END IF;

END;

/

Note：NUMBER类型的DATA\_LENGTH固定是22，没办法判断大小，需改成精度判断。

1. **Add constraint**

DECLARE

NUM NUMBER;

BEGIN

SELECT COUNT(1)

INTO NUM

FROM USER\_CONSTRAINTS

WHERE TABLE\_NAME = UPPER('MG\_SWITCH\_ASTRONOMICAL') AND CONSTRAINT\_NAME = UPPER('MG\_SWITCH\_ASTRONOMICAL\_PK');

IF NUM = 0 THEN

EXECUTE IMMEDIATE 'ALTER TABLE MG\_SWITCH\_ASTRONOMICAL ADD CONSTRAINTS MG\_SWITCH\_ASTRONOMICAL\_PK PRIMARY KEY(PROFILE\_ID)';

END IF;

End;

/

Note: Drop constraint is NUM=1

1. **Insert**

/\*==================================================\*/

/\* If the record is exit then update the data else insert the data

/\*==================================================\*/

MERGE INTO DD\_OMS\_GLOBAL\_PROPERTY A

USING (SELECT 'GLOBAL.TaskPrioritySettings.RcsDefaultPriority' AS PROPERTY\_ID, 'PriorityOfRcsDefault' AS PROPERTY\_NAME, 'PriorityOfRcsDefault' AS NODE\_TYPE,'GLOBAL.TaskPrioritySettings', 'Enum' AS PROPERTY\_TYPE, 6 AS SORT, 'AboveNormal;AboveHigh;High;Normal;BelowNormal;Low' AS DEFAULT\_VALUE,'Priority of RCS Default Task' AS DESCRB FROM DUAL) B

ON (A.PROPERTY\_ID=B.PROPERTY\_ID)

WHEN MATCHED

THEN UPDATE SET A.PROPERTY\_NAME=B.PROPERTY\_NAME, A.NODE\_TYPE= B.NODE\_TYPE, A.PROPERTY\_TYPE = B.PROPERTY\_TYPE, A.SORT = B.SORT, A.DEFAULT\_VALUE = B.DEFAULT\_VALUE, A.DESCRB = B.DESCRB

WHEN NOT MATCHED

THEN INSERT(PROPERTY\_ID, PROPERTY\_NAME, NODE\_TYPE, PROPERTY\_TYPE, SORT, DEFAULT\_VALUE, DESCRB) VALUES(B.PROPERTY\_ID, B.PROPERTY\_NAME, B.NODE\_TYPE, B.PROPERTY\_TYPE, B.SORT, B.DEFAULT\_VALUE, B.DESCRB);

/\*==================================================\*/

/\* If the record is net exit then insert the data

/\*==================================================\*/

INSERT INTO APP\_MENU (MENU\_ID,FUNCTION\_CODE,SHOW\_NAME,TIP,SHOW\_ORDER,SHOW\_ICON\_PATH,PARENT,APP\_TYPE,DISP\_IN\_MENU\_FLAG)

SELECT 35,100106000,'Global Parameters Configuration',null,1,null,3,1,1 FROM DUAL

WHERE NOT EXISTS (SELECT \* FROM APP\_MENU WHERE APP\_MENU.MENU\_ID = 35);