

Database Programming with SQL

* 1. : Final Project Database Creation Practice Activities

# Objectives

* + - Develop and apply a strategy for testing that a database functions as designed.

# Try It / Solve It

1. Complete Parts 1-5 of the Final Project for at least one of the sample entity relationship diagrams

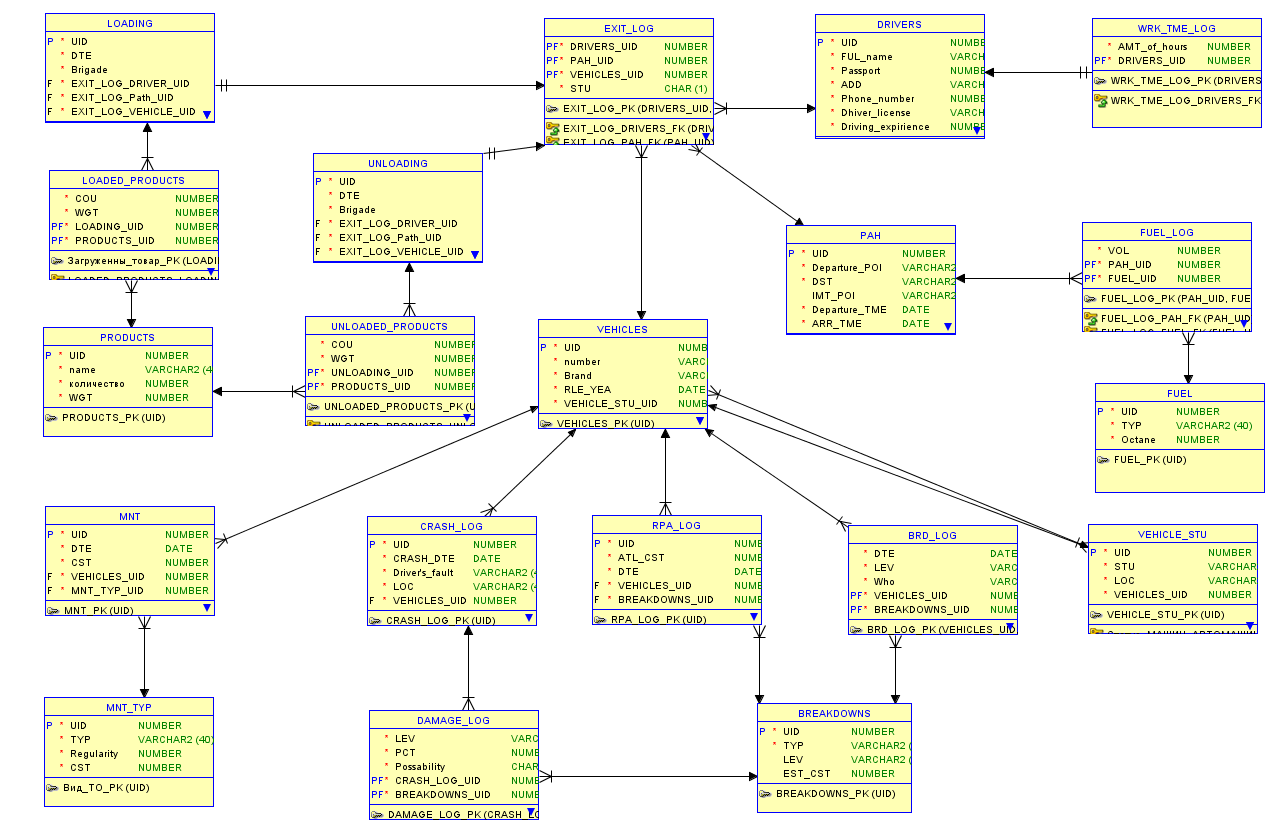
*and* for the entity relationship diagram you completed in the database design course.

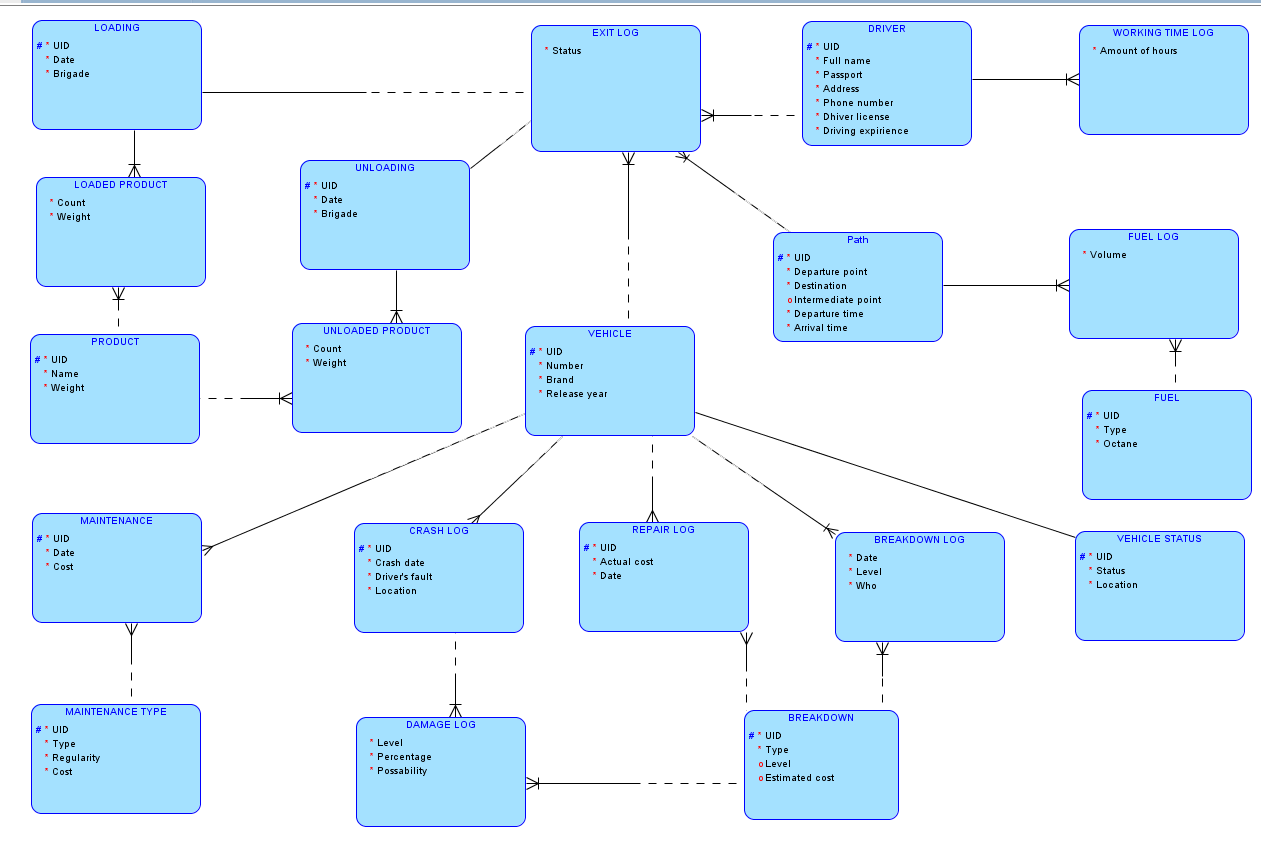
Part 1: Create Table diagram from ERD Part 2: Write and run scripts to create tables Part 3: Insert sample data

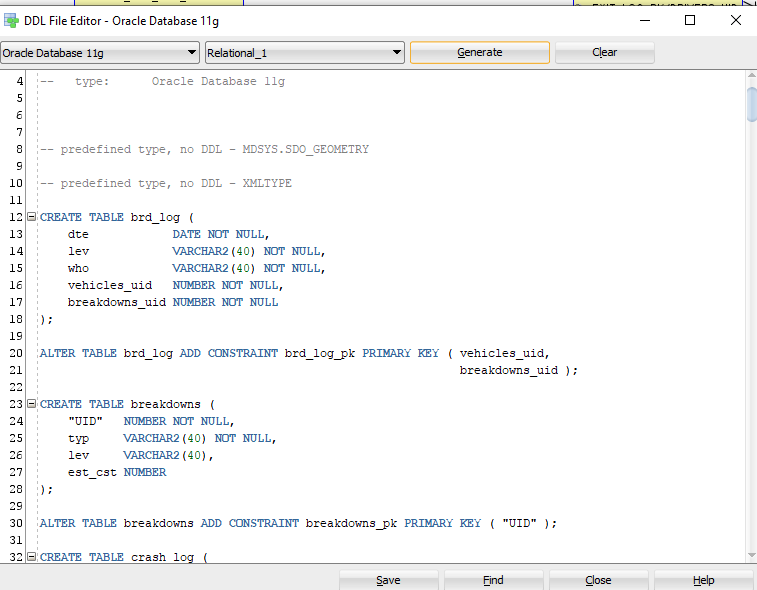
Part 4: Test database

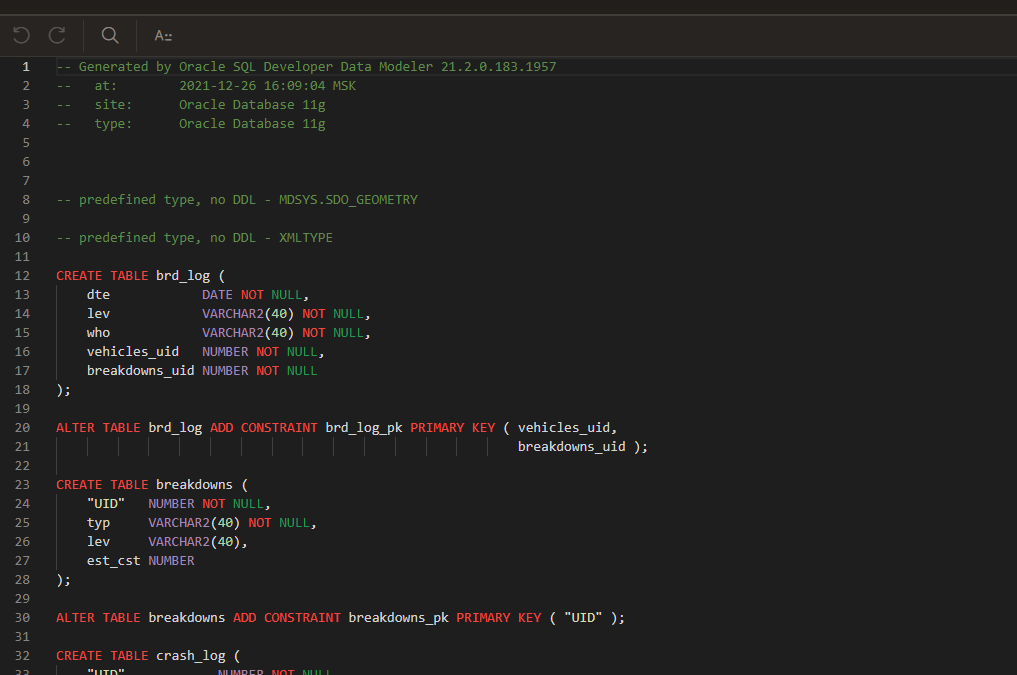
Part 5: Prepare final project presentation

1. Present your Final Project.









-- Generated by Oracle SQL Developer Data Modeler 21.2.0.183.1957

-- at: 2021-12-26 16:09:04 MSK

-- site: Oracle Database 11g

-- type: Oracle Database 11g

-- predefined type, no DDL - MDSYS.SDO\_GEOMETRY

-- predefined type, no DDL - XMLTYPE

CREATE TABLE brd\_log (

dte DATE NOT NULL,

lev VARCHAR2(40) NOT NULL,

who VARCHAR2(40) NOT NULL,

vehicles\_uid NUMBER NOT NULL,

breakdowns\_uid NUMBER NOT NULL

);

ALTER TABLE brd\_log ADD CONSTRAINT brd\_log\_pk PRIMARY KEY ( vehicles\_uid,

breakdowns\_uid );

CREATE TABLE breakdowns (

"UID" NUMBER NOT NULL,

typ VARCHAR2(40) NOT NULL,

lev VARCHAR2(40),

est\_cst NUMBER

);

ALTER TABLE breakdowns ADD CONSTRAINT breakdowns\_pk PRIMARY KEY ( "UID" );

CREATE TABLE crash\_log (

"UID" NUMBER NOT NULL,

crash\_dte DATE NOT NULL,

"Drivers\_fault" VARCHAR2(40) NOT NULL,

loc VARCHAR2(40) NOT NULL,

vehicles\_uid NUMBER NOT NULL

);

ALTER TABLE crash\_log ADD CONSTRAINT crash\_log\_pk PRIMARY KEY ( "UID" );

CREATE TABLE damage\_log (

lev VARCHAR2(40) NOT NULL,

pct NUMBER NOT NULL,

possability CHAR(1) NOT NULL,

crash\_log\_uid NUMBER NOT NULL,

breakdowns\_uid NUMBER NOT NULL

);

ALTER TABLE damage\_log ADD CONSTRAINT damage\_log\_pk PRIMARY KEY ( crash\_log\_uid,

breakdowns\_uid );

CREATE TABLE drivers (

"UID" NUMBER NOT NULL,

ful\_name VARCHAR2(40) NOT NULL,

passport NUMBER NOT NULL,

"ADD" VARCHAR2(40) NOT NULL,

phone\_number NUMBER NOT NULL,

dhiver\_license VARCHAR2(40) NOT NULL,

driving\_expirience NUMBER NOT NULL

);

ALTER TABLE drivers ADD CONSTRAINT drivers\_pk PRIMARY KEY ( "UID" );

CREATE TABLE exit\_log (

drivers\_uid NUMBER NOT NULL,

pah\_uid NUMBER NOT NULL,

vehicles\_uid NUMBER NOT NULL,

stu CHAR(1) NOT NULL

);

ALTER TABLE exit\_log

ADD CONSTRAINT exit\_log\_pk PRIMARY KEY ( drivers\_uid,

pah\_uid,

vehicles\_uid );

CREATE TABLE fuel (

"UID" NUMBER NOT NULL,

typ VARCHAR2(40) NOT NULL,

octane NUMBER NOT NULL

);

ALTER TABLE fuel ADD CONSTRAINT fuel\_pk PRIMARY KEY ( "UID" );

CREATE TABLE fuel\_log (

vol NUMBER NOT NULL,

pah\_uid NUMBER NOT NULL,

fuel\_uid NUMBER NOT NULL

);

ALTER TABLE fuel\_log ADD CONSTRAINT fuel\_log\_pk PRIMARY KEY ( pah\_uid,

fuel\_uid );

CREATE TABLE loaded\_products (

cou NUMBER NOT NULL,

wgt NUMBER NOT NULL,

loading\_uid NUMBER NOT NULL,

products\_uid NUMBER NOT NULL

);

ALTER TABLE loaded\_products ADD CONSTRAINT ���\_�� PRIMARY KEY ( loading\_uid,

products\_uid );

CREATE TABLE loading (

"UID" NUMBER NOT NULL,

dte DATE NOT NULL,

brigade VARCHAR2(40) NOT NULL,

exit\_log\_driver\_uid NUMBER NOT NULL,

exit\_log\_path\_uid NUMBER NOT NULL,

exit\_log\_vehicle\_uid NUMBER NOT NULL

);

CREATE UNIQUE INDEX ���idx ON

loading (

exit\_log\_driver\_uid

ASC,

exit\_log\_path\_uid

ASC,

exit\_log\_vehicle\_uid

ASC );

ALTER TABLE loading ADD CONSTRAINT loading\_pk PRIMARY KEY ( "UID" );

CREATE TABLE mnt (

"UID" NUMBER NOT NULL,

dte DATE NOT NULL,

cst NUMBER NOT NULL,

vehicles\_uid NUMBER NOT NULL,

mnt\_typ\_uid NUMBER NOT NULL

);

ALTER TABLE mnt ADD CONSTRAINT mnt\_pk PRIMARY KEY ( "UID" );

CREATE TABLE mnt\_typ (

"UID" NUMBER NOT NULL,

typ VARCHAR2(40) NOT NULL,

regularity NUMBER NOT NULL,

cst NUMBER NOT NULL

);

ALTER TABLE mnt\_typ ADD CONSTRAINT �\_�k PRIMARY KEY ( "UID" );

CREATE TABLE pah (

"UID" NUMBER NOT NULL,

departure\_poi VARCHAR2(40) NOT NULL,

dst VARCHAR2(40) NOT NULL,

imt\_poi VARCHAR2(40),

departure\_tme DATE NOT NULL,

arr\_tme DATE NOT NULL

);

ALTER TABLE pah ADD CONSTRAINT pah\_pk PRIMARY KEY ( "UID" );

CREATE TABLE products (

"UID" NUMBER NOT NULL,

name VARCHAR2(40) NOT NULL,

��� NUMBER NOT NULL,

wgt NUMBER NOT NULL

);

ALTER TABLE products ADD CONSTRAINT products\_pk PRIMARY KEY ( "UID" );

CREATE TABLE rpa\_log (

"UID" NUMBER NOT NULL,

atl\_cst NUMBER NOT NULL,

dte DATE NOT NULL,

vehicles\_uid NUMBER NOT NULL,

breakdowns\_uid NUMBER NOT NULL

);

ALTER TABLE rpa\_log ADD CONSTRAINT rpa\_log\_pk PRIMARY KEY ( "UID" );

CREATE TABLE unloaded\_products (

cou NUMBER NOT NULL,

wgt NUMBER NOT NULL,

unloading\_uid NUMBER NOT NULL,

products\_uid NUMBER NOT NULL

);

ALTER TABLE unloaded\_products ADD CONSTRAINT unloaded\_products\_pk PRIMARY KEY ( unloading\_uid,

products\_uid );

CREATE TABLE unloading (

"UID" NUMBER NOT NULL,

dte DATE NOT NULL,

brigade VARCHAR2(40) NOT NULL,

exit\_log\_driver\_uid NUMBER NOT NULL,

exit\_log\_path\_uid NUMBER NOT NULL,

exit\_log\_vehicle\_uid NUMBER NOT NULL

);

CREATE UNIQUE INDEX ���idx ON

unloading (

exit\_log\_driver\_uid

ASC,

exit\_log\_path\_uid

ASC,

exit\_log\_vehicle\_uid

ASC );

ALTER TABLE unloading ADD CONSTRAINT unloading\_pk PRIMARY KEY ( "UID" );

CREATE TABLE vehicle\_stu (

"UID" NUMBER NOT NULL,

stu VARCHAR2(40) NOT NULL,

loc VARCHAR2(40) NOT NULL,

vehicles\_uid NUMBER NOT NULL

);

CREATE UNIQUE INDEX ����\_idx ON

vehicle\_stu (

vehicles\_uid

ASC );

ALTER TABLE vehicle\_stu ADD CONSTRAINT vehicle\_stu\_pk PRIMARY KEY ( "UID" );

CREATE TABLE vehicles (

"UID" NUMBER NOT NULL,

"number" VARCHAR2(40) NOT NULL,

brand VARCHAR2(40) NOT NULL,

rle\_yea DATE NOT NULL,

vehicle\_stu\_uid NUMBER NOT NULL

);

CREATE UNIQUE INDEX ����\_\_idx ON

vehicles (

vehicle\_stu\_uid

ASC );

ALTER TABLE vehicles ADD CONSTRAINT vehicles\_pk PRIMARY KEY ( "UID" );

CREATE TABLE wrk\_tme\_log (

amt\_of\_hours NUMBER NOT NULL,

drivers\_uid NUMBER NOT NULL

);

ALTER TABLE wrk\_tme\_log ADD CONSTRAINT wrk\_tme\_log\_pk PRIMARY KEY ( drivers\_uid );

ALTER TABLE brd\_log

ADD CONSTRAINT brd\_log\_breakdowns\_fk FOREIGN KEY ( breakdowns\_uid )

REFERENCES breakdowns ( "UID" );

ALTER TABLE brd\_log

ADD CONSTRAINT brd\_log\_vehicles\_fk FOREIGN KEY ( vehicles\_uid )

REFERENCES vehicles ( "UID" );

ALTER TABLE crash\_log

ADD CONSTRAINT crash\_log\_vehicles\_fk FOREIGN KEY ( vehicles\_uid )

REFERENCES vehicles ( "UID" );

ALTER TABLE damage\_log

ADD CONSTRAINT damage\_log\_breakdowns\_fk FOREIGN KEY ( breakdowns\_uid )

REFERENCES breakdowns ( "UID" );

ALTER TABLE damage\_log

ADD CONSTRAINT damage\_log\_crash\_log\_fk FOREIGN KEY ( crash\_log\_uid )

REFERENCES crash\_log ( "UID" );

ALTER TABLE exit\_log

ADD CONSTRAINT exit\_log\_drivers\_fk FOREIGN KEY ( drivers\_uid )

REFERENCES drivers ( "UID" );

ALTER TABLE exit\_log

ADD CONSTRAINT exit\_log\_pah\_fk FOREIGN KEY ( pah\_uid )

REFERENCES pah ( "UID" );

ALTER TABLE exit\_log

ADD CONSTRAINT exit\_log\_vehicles\_fk FOREIGN KEY ( vehicles\_uid )

REFERENCES vehicles ( "UID" );

ALTER TABLE fuel\_log

ADD CONSTRAINT fuel\_log\_fuel\_fk FOREIGN KEY ( fuel\_uid )

REFERENCES fuel ( "UID" );

ALTER TABLE fuel\_log

ADD CONSTRAINT fuel\_log\_pah\_fk FOREIGN KEY ( pah\_uid )

REFERENCES pah ( "UID" );

ALTER TABLE loaded\_products

ADD CONSTRAINT loaded\_products\_loading\_fk FOREIGN KEY ( loading\_uid )

REFERENCES loading ( "UID" );

ALTER TABLE loaded\_products

ADD CONSTRAINT loaded\_products\_products\_fk FOREIGN KEY ( products\_uid )

REFERENCES products ( "UID" );

ALTER TABLE loading

ADD CONSTRAINT loading\_exit\_log\_fk FOREIGN KEY ( exit\_log\_driver\_uid,

exit\_log\_path\_uid,

exit\_log\_vehicle\_uid )

REFERENCES exit\_log ( drivers\_uid,

pah\_uid,

vehicles\_uid );

ALTER TABLE mnt

ADD CONSTRAINT mnt\_mnt\_typ\_fk FOREIGN KEY ( mnt\_typ\_uid )

REFERENCES mnt\_typ ( "UID" );

ALTER TABLE mnt

ADD CONSTRAINT mnt\_vehicles\_fk FOREIGN KEY ( vehicles\_uid )

REFERENCES vehicles ( "UID" );

ALTER TABLE rpa\_log

ADD CONSTRAINT rpa\_log\_breakdowns\_fk FOREIGN KEY ( breakdowns\_uid )

REFERENCES breakdowns ( "UID" );

ALTER TABLE rpa\_log

ADD CONSTRAINT rpa\_log\_vehicles\_fk FOREIGN KEY ( vehicles\_uid )

REFERENCES vehicles ( "UID" );

ALTER TABLE unloaded\_products

ADD CONSTRAINT unloaded\_products\_products\_fk FOREIGN KEY ( products\_uid )

REFERENCES products ( "UID" );

ALTER TABLE unloaded\_products

ADD CONSTRAINT unloaded\_products\_unloading\_fk FOREIGN KEY ( unloading\_uid )

REFERENCES unloading ( "UID" );

ALTER TABLE unloading

ADD CONSTRAINT unloading\_exit\_log\_fk FOREIGN KEY ( exit\_log\_driver\_uid,

exit\_log\_path\_uid,

exit\_log\_vehicle\_uid )

REFERENCES exit\_log ( drivers\_uid,

pah\_uid,

vehicles\_uid );

ALTER TABLE wrk\_tme\_log

ADD CONSTRAINT wrk\_tme\_log\_drivers\_fk FOREIGN KEY ( drivers\_uid )

REFERENCES drivers ( "UID" );

-- Error - Foreign Key ������\_�����FK has no columns

-- Error - Foreign Key �����������\_FK has no columns

-- Oracle SQL Developer Data Modeler Summary Report:

--

-- CREATE TABLE 20

-- CREATE INDEX 4

-- ALTER TABLE 41

-- CREATE VIEW 0

-- ALTER VIEW 0

-- CREATE PACKAGE 0

-- CREATE PACKAGE BODY 0

-- CREATE PROCEDURE 0

-- CREATE FUNCTION 0

-- CREATE TRIGGER 0

-- ALTER TRIGGER 0

-- CREATE COLLECTION TYPE 0

-- CREATE STRUCTURED TYPE 0

-- CREATE STRUCTURED TYPE BODY 0

-- CREATE CLUSTER 0

-- CREATE CONTEXT 0

-- CREATE DATABASE 0

-- CREATE DIMENSION 0

-- CREATE DIRECTORY 0

-- CREATE DISK GROUP 0

-- CREATE ROLE 0

-- CREATE ROLLBACK SEGMENT 0

-- CREATE SEQUENCE 0

-- CREATE MATERIALIZED VIEW 0

-- CREATE MATERIALIZED VIEW LOG 0

-- CREATE SYNONYM 0

-- CREATE TABLESPACE 0

-- CREATE USER 0

--

-- DROP TABLESPACE 0

-- DROP DATABASE 0

--

-- REDACTION POLICY 0

--

-- ORDS DROP SCHEMA 0

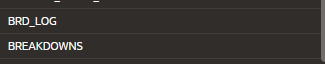
-- ORDS ENABLE SCHEMA 0

-- ORDS ENABLE OBJECT 0

--

-- ERRORS 2

-- WARNINGS 0



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