

SPATIAL DATABASES (CS – 615)

LAST HOMEWORK

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Oracle ID – st162

Question:

You were each assigned a state (or picked one in a few cases). For this assignment you are to make a SDO table row for your state, which should include the following items. You should create a table with 7 fields as follows:

varchar(15) 1. Capital city.

varchar(18) 2. Long and lat of capital city.

blob 3. Picture of the state flag.

clob 4. 100-200 of your own words stating what YOU found interesting about the state.

Be a bit creative. Do not plagiarize. Avoid first person pronouns.

sdo_geom 5. Usual 'shape' column.

varchar(50) 6. A famous novel about your state (title and author). Title should not include your state name!!! e.g. Last of the Mohicans by James Fennimore Cooper, for New York state.

varchar(100) 7. Well known tourist site plus brief description thereof.

Your report can consist of an SQL INSERT INTO line with the above info for your state. We might then make up a 50-row table by doing a union of your homework answers.

Solution:

I had been assigned to the state of Louisiana. I have decided to write the following details into my assignment:

Capital City - Baton Rouge

Latitude and Longitude - 30.9843N,91.9623W

Interesting Facts - The state of Louisiana has parishes instead of counties. A large population of Cajuns resides in this state. There is a bridge named Lake Pontchartrain Causeway in Louisiana which is the world's longest bridge over a body of water. Louisiana is also known as the birthplace of Jazz. Louisiana's state capitol building is the tallest in the United States at about 450 feet. It is also one of America's greatest salt producers. There is a world-famous event being held in New Orleans called Mardi Gras. Mausoleums are often used instead of traditional underground graves because most of the New Orleans sits below sea level. The first opera performed in the U.S. took place in the French Quarter of New Orleans in the year 1796. Louisiana is home to both the "Crawfish Capital of the World" and the "Frog Capital of the World". Saint Charles streetcar located in New Orleans is one of the only two mobile national monuments in the country.

Famous Novel - The Awakening by Kate Chopin

Famous Tourist Attraction - The National WWII Museum emphasizing the American experience in World War II.

The SQL Script for the assignment is as follows:

```
CREATE OR REPLACE DIRECTORY LOUISIANA AS 'D:\Spatial Dhaval';
```

```
DROP TABLE States;
```

```
CREATE TABLE States(Capital varchar(15),Coordinates varchar(21), Flag BLOB, Report  
CLOB,Famous_Novel varchar(50),Famous_Tourist_Site varchar(100), SHAPE MDSYS.SDO_GEOMETRY);
```

```
DELETE FROM USER_SDO_GEOM_METADATA WHERE TABLE_NAME = 'STATES' AND  
COLUMN_NAME='SHAPE';
```

```
INSERT INTO USER_SDO_GEOM_METADATA (TABLE_NAME, COLUMN_NAME, DIMINFO, SRID) VALUES  
( 'STATES', 'SHAPE', MDSYS.SDO_DIM_ARRAY (MDSYS.SDO_DIM_ELEMENT('X', -180.000000000,  
180.000000000, 0.500000000), MDSYS.SDO_DIM_ELEMENT('Y', -90.000000000, 90.000000000,  
0.500000000)), 8307);
```

```
CREATE INDEX states_spatial_idx on States(SHAPE) INDEXTYPE IS MDSYS.SPATIAL_INDEX;
```

```
INSERT INTO States(Capital, Coordinates, Flag, Report, Famous_Novel, Famous_Tourist_Site, Shape)  
VALUES ('Baton Rouge', '30.9843,-91.9623', EMPTY_BLOB(), 'The state of Louisiana has parishes instead  
of counties. A large population of Cajuns resides in this state. There is a bridge named Lake Pontchartrain  
Causeway in Louisiana which is the worlds longest bridge over a body of water. Louisiana is also known  
as the birthplace of Jazz. Louisiana state capitol building is the tallest in the United States at about 450  
feet. It is also one of Americas greatest salt producers. There is a world-famous event being held in New  
Orleans called Mardi Gras. Mausoleums are often used instead of traditional underground graves because  
most of the New Orleans sits below sea level. The first opera performed in the U.S. took place in the  
French Quarter of New Orleans in the year 1796. Louisiana is home to both the Crawfish Capital of the  
World and the Frog Capital of the World. Saint Charles streetcar located in New Orleans is one of the only  
two mobile national monuments in the country.', 'The Awakening by Kate Chopin', 'The National WWII  
Museum emphasizing the American experience in World War II.', SDO_GEOMETRY(7, 8307, NULL,  
SDO_ELEM_INFO_ARRAY(1, 3, 1), SDO_ORDINATE_ARRAY(-93.707359, 30.239372, -93.699211,  
30.297388, -93.729774, 30.304916, -93.759178, 30.340872, -93.759338, 30.354145, -  
93.747833, 30.367411, -93.754944, 30.381788, -93.742561, 30.408823, -93.721535, 30.43298, -  
93.696571, 30.442633, -93.703423, 30.462513, -93.697975, 30.470047, -93.714851, 30.488628, -  
93.707275, 30.496241, -93.714638, 30.505114, -93.70546, 30.522858, -93.735306, 30.545517, -  
93.71788, 30.568153, -93.717812, 30.587379, -93.69342, 30.598835, -93.671585, 30.597832, -  
93.692696, 30.615795, -93.684586, 30.623425, -93.692879, 30.640041, -93.677971, 30.639692, -  
93.659988, 30.672859, -93.617607, 30.686802, -93.612411, 30.710329, -93.61779, 30.732548, -  
93.607651, 30.73201, -93.618454, 30.745789, -93.585175, 30.772184, -93.581871, 30.80204, -  
93.550682, 30.828344, -93.555641, 30.842342, -93.566444, 30.845148, -93.552803, 30.860283, -  
93.560844, 30.87188, -93.568497, 30.886234, -93.564476, 30.901932, -93.546516, 30.905334, -  
93.549622, 30.924885, -93.529984, 30.926971, -93.52562, 30.93582, -93.532188, 30.960732, -  
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CREATE OR REPLACE PROCEDURE load_flag IS

src_bfile BFILE := BFILENAME('LOUISIANA', 'Louisiana-Flag.jpg');

dest_blob BLOB;

BEGIN

```

SELECT flag into dest_blob FROM States WHERE Capital = 'Baton Rouge' FOR UPDATE;

DBMS_LOB.fileopen(src_bfile, DBMS_LOB.LOB_READONLY);

DBMS_LOB.LoadFromFile( dest_blob,src_bfile,DBMS_LOB.GETLENGTH(src_bfile) );

DBMS_LOB.fileclose(src_bfile);

COMMIT;

END;

```

/

EXECUTE load_flag;

select * from states;

The SQL script and its various attributes looks as follows in my local oracle and SQL database:

The screenshot displays the Oracle SQL Developer interface. The main window shows a SQL script with the following content:

```

CREATE OR REPLACE DIRECTORY LOUISIANA AS 'D:\Spatial Dhaval\dhaval.sql';

DROP TABLE States;

CREATE TABLE States(Capital varchar(15),Coordinates varchar(21), Flag BLOB, Report CLOB,Famous_Novel varchar(50),Famous_Tourist_Site varchar(100), SHAPE MDSYS.SDO_GEOMETRY);

DELETE FROM USER_SDO_GEOM_METADATA WHERE TABLE_NAME = 'STATES' AND COLUMN_NAME='SHAPE';

INSERT INTO USER_SDO_GEOM_METADATA (TABLE_NAME, COLUMN_NAME, DIMINFO, SRID) VALUES ('STATES', 'SHAPE', MDSYS.SDO_DIM_ARRAY (MDSYS.SDO_DIM_ELEMENT('X', -180.000000000, 180.000000000, 0.500000000)), MDSYS.SDO_DIM);

CREATE INDEX states_spatial_idx on States(SHAPE) INDEXTYPE IS MDSYS.SPATIAL_INDEX;

INSERT INTO States(Capital, Coordinates, Flag, Report, Famous_Novel, Famous_Tourist_Site,shape) VALUES ('Baton Rouge', '30.9543,-91.9623', EMPTY_BLOB(), 'The state of Louisiana has parishes instead of counties.

CREATE OR REPLACE PROCEDURE load_flag IS
src_bfile BFILE := BFILENAME('LOUISIANA', 'Louisiana-Flag.jpg');
dest_blob BLOB;
BEGIN
SELECT flag into dest_blob FROM States WHERE Capital = 'Baton Rouge' FOR UPDATE;
DBMS_LOB.fileopen(src_bfile, DBMS_LOB.LOB_READONLY);
DBMS_LOB.LoadFromFile( dest_blob,src_bfile,DBMS_LOB.GETLENGTH(src_bfile) );
DBMS_LOB.fileclose(src_bfile);
COMMIT;
END;

/
EXECUTE load_flag;

select * from states;

```

The bottom panel shows the query results for the 'select * from states;' statement. The results are displayed in a table with the following columns: CAPITAL, COORDINATES, FLAG, REPORT, FAMOUS_NOVEL, and FAMOUS_TOURIST_SITE. The first row shows the data for Baton Rouge.

CAPITAL	COORDINATES	FLAG	REPORT	FAMOUS_NOVEL	FAMOUS_TOURIST_SITE
Baton Rouge	30.9543,-91.9623	(BLOB)	The state of Louisiana has parishes instead of counties. A large populat...	The Awakening by Kate Chopin	The National WWII Museum emphasizing the American experience in World

Oracle SQL Developer: D:\Spatial Dhaval\dhaval.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections

Oracle Connections

Admin

Scott

Tables (Filtered)

BONUS

DEPT

EMP

LOUISIANA

MDRT_127D4\$

SALGRADE

STATES

USSTATES

VERMONTSTATE

Views

Packages

Procedures

Functions

Operators

Queues

Queues Tables

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

User Defined Reports

SQL Worksheet: History

Worksheet Query Builder

```

CREATE OR REPLACE DIRECTORY LOUISIANA AS 'D:\Spatial Dhaval';

DROP TABLE States;

CREATE TABLE States(Capital varchar(15),Coordinates varchar(21), Flag BLOB, Report CLOB,Famous_Novel varchar(50),Famous_Tourist_Site varchar(100),Shape SDO_GEOMETRY);

DELETE FROM USER_SDO_GEOM_METADATA WHERE TABLE_NAME = 'STATES' AND COLUMN_NAME='SHAPE';

CREATE INDEX states_spatial_idx on States(SHAPE) INDEXTYPE IS MDSYS.SPATIAL_INDEX;

INSERT INTO States(Capital, Coordinates, Flag, Report, Famous_Novel, Famous_Tourist_Site,Shape) VALUES ('Baton Rouge 30.9443,-91.9623 (BLOB)', 'The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II', 'The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II', 'The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II', 'The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II', 'The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II', 'The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II');

CREATE OR REPLACE PROCEDURE load_flag IS
src_blob BFILE := BFILENAME('LOUISIANA', 'Louisiana-Flag.jpg');
dest_blob BLOB;
BEGIN
SELECT flag into dest_blob FROM States WHERE Capital = 'Baton Rouge' FOR UPDATE;
DBMS_LOB.fileopen(src_blob, DBMS_LOB.LOB_READONLY);
DBMS_LOB.loadfromFile( dest_blob,src_blob,DBMS_LOB.GETLENGTH(src_blob) );
DBMS_LOB.fileclose(src_blob);
COMMIT;
END;

EXECUTE load_flag;

select * from states;

```

View Value

Information Saved Image

Help OK Cancel

Script Output Query Result

SQL All Rows Fetched: 1 in 0.007 seconds

CAPITAL	COORDINATES	FLAG	REPORT	FAMOUS_NOVEL	FAMOUS_TOURIST_SITE
1 Baton Rouge 30.9443,-91.9623 (BLOB)			The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II		

Saved: D:\Spatial Dhaval\dhaval.sql

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Columns Data Model Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL

Actions...

	COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
1	CAPITAL	VARCHAR2(15 BYTE)	Yes	(null)	1	(null)
2	COORDINATES	VARCHAR2(21 BYTE)	Yes	(null)	2	(null)
3	FLAG	BLOB	Yes	(null)	3	(null)
4	REPORT	CLOB	Yes	(null)	4	(null)
5	FAMOUS_NOVEL	VARCHAR2(50 BYTE)	Yes	(null)	5	(null)
6	FAMOUS_TOURIST_SITE	VARCHAR2(100 BYTE)	Yes	(null)	6	(null)
7	SHAPE	SDO_GEOMETRY	Yes	(null)	7	(null)

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Sort Filter Actions...

	CAPITAL	COORDINATES	FLAG	REPORT	FAMOUS_NOVEL	FAMOUS_TOURIST_SITE	SHAPE
1	Baton Rouge 30.9443,-91.9623 (BLOB)			The state of Louisiana has parishes instead of counties. A large population of 4.6 million. The Awakening by Kate Chopin The National WWII Museum emphasizing the American experience in World War II			[MDSYS.SDO_GEOMETRY]