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Solve the following questions. Copy the commands below each question and also the screen shot of the result below the command. Upload the document on Blackboard.

1. Create table CITIES **from table LOCATIONS,** but only for location numbers less than 2000 (do NOT create this table from scratch).

🡪 You will have exactly 10 rows here.

When you describe CITIES, the output is shown below:

SQL> DESC cities

Name Null? Type

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LOCATION\_ID NUMBER(4)

STREET\_ADDRESS VARCHAR2(40)

POSTAL\_CODE VARCHAR2(12)

CITY NOT NULL VARCHAR2(30)

STATE\_PROVINCE VARCHAR2(25)

COUNTRY\_ID CHAR(2)

**ANSWER:**

**CREATE TABLE CITIES AS**

**(SELECT LOCATION\_ID, STREET\_ADDRESS, POSTAL\_CODE, CITY, STATE\_PROVINCE, COUNTRY\_ID**

**FROM LOCATIONS**

**WHERE LOCATION\_ID < 2000);**

**LOCATION\_ID STREET\_ADDRESS POSTAL\_CODE CITY STATE\_PROVINCE CO**

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**1000 1297 Via Cola di Rie 00989 Roma IT**

**1100 93091 Calle della Testa 10934 Venice IT**

**1200 2017 Shinjuku-ku 1689 Tokyo Tokyo Prefecture JP**

**1300 9450 Kamiya-cho 6823 Hiroshima JP**

**1400 2014 Jabberwocky Rd 26192 Southlake Texas US**

**1500 2011 Interiors Blvd 99236 South San Francisco California US**

**1600 2007 Zagora St 50090 South Brunswick New Jersey US**

**1700 2004 Charade Rd 98199 Seattle Washington US**

**1800 147 Spadina Ave M5V 2L7 Toronto Ontario CA**

**1900 6092 Boxwood St YSW 9T2 Whitehorse Yukon CA**

2. Create table TOWNS **from table LOCATIONS,** but only for location numbers less than 1500 (do NOT create this table from scratch). This table will have same structure as table CITIES.

🡪 You will have exactly 5 rows here.

**ANSWER:**

**CREATE TABLE TOWNS AS**

**(SELECT LOCATION\_ID, STREET\_ADDRESS, POSTAL\_CODE, CITY, STATE\_PROVINCE, COUNTRY\_ID**

**FROM LOCATIONS**

**WHERE LOCATION\_ID < 1500);**

**OUTPUT:**

**LOCATION\_ID STREET\_ADDRESS POSTAL\_CODE CITY STATE\_PROVINCE CO**

**----------- ---------------------------------------- ------------ ------------------------------ ------------------------- --**

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**1200 2017 Shinjuku-ku 1689 Tokyo Tokyo Prefecture JP**

**1300 9450 Kamiya-cho 6823 Hiroshima JP**

**1400 2014 Jabberwocky Rd 26192 Southlake Texas US**

3. Create simple view called CAN\_CITY\_VU, based on table CITIES so that will contain only columns Street\_Address, Postal\_Code, City and State\_Province for locations only in CANADA. Then display all data from this view.

**ANSWER:**

**CREATE VIEW CAN\_CITY\_VU AS**

**(SELECT STREET\_ADDRESS, POSTAL\_CODE, CITY, STATE\_PROVINCE**

**FROM CITIES**

**WHERE COUNTRY\_ID = 'CA');**

**OUTPUT:**

**LOCATION\_ID STREET\_ADDRESS POSTAL\_CODE CITY STATE\_PROVINCE CO**

**----------- ---------------------------------------- ------------ ------------------------------ ------------------------- --**

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**1700 2004 Charade Rd 98199 Seattle Washington US**

**1800 147 Spadina Ave M5V 2L7 Toronto Ontario CA**

**1900 6092 Boxwood St YSW 9T2 Whitehorse Yukon CA**

4. Modify your simple view so that will have following aliases instead of original column names: Str\_Adr, P\_Code, City and Prov and also will include cities from ITALY as well. Then display all data from this view.

**ANSWER:**

**CREATE OR REPLACE VIEW CAN\_CITY\_VU (STR\_ADR, P\_CODE, CITY, PROV) AS**

**(SELECT STREET\_ADDRESS, POSTAL\_CODE, CITY, STATE\_PROVINCE**

**FROM CITIES**

**WHERE COUNTRY\_ID IN ('CA', 'IT'));**

**OUTPUT:**

**STR\_ADR P\_CODE CITY PROV**

**---------------------------------------- ------------ ------------------------------ -------------------------**

**1297 Via Cola di Rie 00989 Roma**

**93091 Calle della Testa 10934 Venice**

**147 Spadina Ave M5V 2L7 Toronto Ontario**

**6092 Boxwood St YSW 9T2 Whitehorse Yukon**

5. Create complex view called CITY\_DNAME\_VU, based on tables LOCATIONS and DEPARTMENTS, so that will contain only columns Department\_Name, City and State\_Province for locations in ITALY or CANADA. Include situations even when city does NOT have department established yet. Then display all data from this view.

**ANSWER:**

**CREATE VIEW CITY\_DNAME\_VU AS**

**(SELECT D.DEPARTMENT\_NAME, L.CITY, L.STATE\_PROVINCE**

**FROM DEPARTMENTS D RIGHT JOIN LOCATIONS L**

**ON D.LOCATION\_ID = L.LOCATION\_ID**

**WHERE L.COUNTRY\_ID IN ('CA', 'IT'));**

**DEPARTMENT\_NAME CITY STATE\_PROVINCE**

**------------------------------ ------------------------------ -------------------------**

**Marketing Toronto Ontario**

**Whitehorse Yukon**

**Roma**

**Venice**

6. Modify your complex view so that will have following aliases instead of original column names: DName, City and Prov and also will include all cities outside United States

Include situations even when city does NOT have department established yet. Then display all data from this view.

**ANSWER:**

**CREATE OR REPLACE VIEW CITY\_DNAME\_VU (DName, City, Prov) AS**

**(SELECT D.DEPARTMENT\_NAME, L.CITY, L.STATE\_PROVINCE**

**FROM DEPARTMENTS D RIGHT JOIN LOCATIONS L**

**ON D.LOCATION\_ID = L.LOCATION\_ID**

**WHERE L.COUNTRY\_ID != 'US');**

**OUTPUT:**

**DNAME CITY PROV**

**------------------------------ ------------------------------ -------------------------**

**Roma**

**Venice**

**Tokyo Tokyo Prefecture**

**Hiroshima**

**Marketing Toronto Ontario**

**Whitehorse Yukon**

**Beijing**

**Bombay Maharashtra**

**Sydney New South Wales**

**Singapore**

**London**

**Sales Oxford Oxford**

**Stretford Manchester**

**Munich Bavaria**

**Sao Paulo Sao Paulo**

**Geneva Geneve**

**Bern BE**

**Utrecht Utrecht**

**Mexico City Distrito Federal,**

**19 rows selected**

7. Check in the Data Dictionary what Views (their names and definitions) are created so far in your account. Then drop your CITY\_DNAME\_VU and check Data Dictionary again. What is different?

**ANSWER:**

**SELECT VIEW\_NAME, TEXT**

**FROM USER\_VIEWS;**

**VIEW\_NAME TEXT**

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**CAN\_CITY\_VU (SELECT STREET\_ADDRESS, POSTAL\_CODE, CITY, STATE\_PROVINCE**

**FROM CITIES**

**WH**

**DEPT50 SELECT EMPLOYEE\_ID AS "EMPNO", LAST\_NAME AS "EMPLOYEE", DEPARTMENT\_ID AS "DEPTNO**

**EMPLOYEES\_VU (SELECT EMPLOYEE\_ID, LAST\_NAME AS "EMPLOYEE", DEPARTMENT\_ID**

**FROM EMPLOYEES)**

**THE VIEW CITY\_DNAME\_VU IS DROPED FROM THE DATA DICTIONARY.**