Taylor Rembos

Assignment 4

Due 12/5

For each task

1. Electronic copy of code
2. Copy of tests asked to run
3. Copy/pasted results of tests

**Task 1**

1. Electronic copy of code

CREATE TRIGGER new\_sighting\_ISSUE

BEFORE INSERT ON SIGHTINGS

WHEN NEW.LOCATION NOT IN

(SELECT LOCATION FROM FEATURES)

BEGIN

SELECT RAISE(ABORT,'ERROR: Insert into SIGHTINGS table references location not found in database');

END;

1. Copy of tests asked to run

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person B', 'Double Mountain', '2005-11-28');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person A', 'Shirley Peak', '2006-08-18');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person B', 'Grouse Meadow', '2006-11-28');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person C', 'Grouse Meadow', '2006-08-16');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person A', 'Piute', '2007-02-17');

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SELECT \*

FROM SIGHTINGS

WHERE PERSON = 'Person A' or PERSON = 'Person B' OR PERSON = 'Person C';

SELECT \*

FROM FEATURES

WHERE CLASS = 'UNKNOWN';

1. Copy/pasted results of tests

|  |
| --- |
| * INSERT tests ran successfully with last test producing error message.      * First SELECT test:   Douglas dustymaiden;Person B;Double Mountain;2005-11-28 |
| Douglas dustymaiden;Person A;Shirley Peak;2006-08-18 |
| Douglas dustymaiden;Person B;Grouse Meadow;2006-11-28 |
| Douglas dustymaiden;Person C;Grouse Meadow;2006-08-16 |

* Second SELECT test:

No output results

**Task 2**

1. Electronic copy of code

CREATE TRIGGER new\_sighting\_ADDITION

BEFORE INSERT ON SIGHTINGS

WHEN NEW.LOCATION NOT IN

(SELECT LOCATION FROM FEATURES)

BEGIN

insert INTO FEATURES(LOCATION, CLASS, LATITUDE, LONGITUDE, MAP, ELEV)

VALUES(NEW.LOCATION, 'UNKNOWN', NULL, NULL, NULL, NULL);

END;

1. Copy of tests asked to run

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person B', 'Double Mountain', '2005-11-28');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person A', 'Shirley Peak', '2006-08-18');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person B', 'Grouse Meadow', '2006-11-28');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person C', 'Grouse Meadow', '2006-08-16');

INSERT INTO SIGHTINGS VALUES

('Douglas dustymaiden', 'Person A', 'Piute', '2007-02-17');

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SELECT \*

FROM SIGHTINGS

WHERE PERSON = 'Person A' or PERSON = 'Person B' OR PERSON = 'Person C';

SELECT \*

FROM FEATURES

WHERE CLASS = 'UNKNOWN';

1. Copy/pasted results of tests

* INSERT tests ran successfully with no errors
* First SELECT statement output:

|  |
| --- |
| Douglas dustymaiden;Person B;Double Mountain;2005-11-28 |
| Douglas dustymaiden;Person A;Shirley Peak;2006-08-18 |
| Douglas dustymaiden;Person B;Grouse Meadow;2006-11-28 |
| Douglas dustymaiden;Person C;Grouse Meadow;2006-08-16 |
| Douglas dustymaiden;Person A;Piute;2007-02-17 |

* Second SELECT statement output:

Piute;UNKNOWN;null;null;null;null

**Task 3**

1. Electronic copy of code

CREATE TRIGGER NEW3

BEFORE INSERT ON SIGHTINGS

WHEN NEW.NAME NOT IN (

SELECT COMNAME FROM FLOWERS

)

AND NEW.NAME IN (

SELECT GENUS || ' ' || SPECIES AS LATIN\_NAME FROM FLOWERS

)

BEGIN

INSERT INTO SIGHTINGS(NAME, PERSON, LOCATION, SIGHTED)

VALUES (

(SELECT COMNAME FROM FLOWERS

WHERE GENUS || ' ' || SPECIES = NEW.NAME),

NEW.PERSON, NEW.LOCATION, NEW.SIGHTED

);

SELECT RAISE(FAIL, "Latin name error");

END;

1. Copy of tests asked to run

INSERT INTO SIGHTINGS VALUES

('Sky pilot', 'Person X', 'Grouse Meadow', '2006-08-18');

INSERT INTO SIGHTINGS VALUES

('Hoar buckwheat', 'Person X', 'Grouse Meadow', '2006-08-18');

INSERT INTO SIGHTINGS VALUES

('Zigadenus venenosus', 'Person X', 'Grouse Meadow', '2006-08-18');

INSERT INTO SIGHTINGS VALUES

('Carex limosa', 'Person Y', 'Grouse Meadow', '2006-08-18');

INSERT INTO SIGHTINGS VALUES

('Draperia', 'Person Z', 'Grouse Meadow', '2006-08-18');

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SELECT \*

FROM SIGHTINGS

WHERE PERSON = 'Person X' or PERSON = 'Person Y' or PERSON = 'Person Z';

1. Copy/pasted results of tests

|  |
| --- |
| Sky pilot;Person X;Grouse Meadow;2006-08-18 |
| Hoar buckwheat;Person X;Grouse Meadow;2006-08-18 |
| Death camas;Person X;Grouse Meadow;2006-08-18 |
| Mud sedge;Person Y;Grouse Meadow;2006-08-18 |
| Draperia;Person Z;Grouse Meadow;2006-08-18 |