

CSE 5330/7330 Fall 2018
Phase 3 Functional Requirements

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Start with your database populated with the data provided.

Database used: MySQL

Added a new table called insp_code_cost which stores the inspection_code, begin_date, end_date and cost. This table is important to retain the information of cost history on inspection_code. The new tables are as follows:

```
CREATE TABLE Inspection_type (  
    Code CHAR(3) NOT NULL,  
    Type VARCHAR(45) NOT NULL,  
    PRIMARY KEY (Code));
```

```
CREATE TABLE INSP_CODE_COST (  
    Code CHAR(3) NOT NULL,  
    begin DATE NOT NULL,  
    end DATE DEFAULT NULL,  
    Cost int not null,  
    PRIMARY KEY (Code , begin),  
    FOREIGN KEY (code)  
    REFERENCES Inspection_type (Code));
```

A new function has been written to retrieve the cost of an inspection_code based on date.

```
delimiter $  
create function get_cost(type char(3), date date)  
returns int  
deterministic  
begin  
    declare ret int;  
    set ret = (select cost from insp_code_cost where date between begin and end and code =  
type);  
    if ret is NULL then  
        set ret = (select cost from insp_code_cost where end_date is NULL and  
code = type);  
    end if;
```

```

        return ret;
    end;
    $
delimiter ;

```

Alter table inspector add column RetiredDate date default NULL;

A new column for inspector has also been added to keep track of the inspector's retirement.

Initial state of the database: (All select statements)

```

mysql> use project;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-----+
| Tables_in_project |
+-----+
| Builders           |
| Building           |
| INSP_CODE_COST     |
| Inspection_History |
| Inspection_type    |
| inspector          |
| pending_inspection |
| Prerequisite       |
+-----+
8 rows in set (0.00 sec)

mysql> █

```

Builders:

```

mysql> select * from builders;
+-----+-----+-----+
| License | Name   | Address |
+-----+-----+-----+
| 12321   | Builder-5 | Address-5 |
| 12345   | Builder-1 | Address-1 |
| 23456   | Builder-2 | Address-2 |
| 34567   | Builder-3 | Address-3 |
| 45678   | Builder-4 | Address-4 |
+-----+-----+-----+
5 rows in set (0.00 sec)

```

Building:

```
mysql> select * from building;
```

| Address | Builder_ID | Type | Size | DateFirstActivity |
|-------------------------------------|------------|-------------|--------|-------------------|
| 100 Industrial Ave., Fort Worth, TX | 23456 | commercial | 100000 | 2005-06-01 |
| 100 Main St., Dallas, TX | 12345 | commercial | 250000 | 1999-12-31 |
| 100 Winding Wood, Carrollton, TX | 45678 | residential | 2500 | NULL |
| 101 Industrial Ave., Fort Worth, TX | 23456 | commercial | 80000 | 2005-06-01 |
| 102 Industrial Ave., Fort Worth, TX | 23456 | commercial | 75000 | 2005-06-01 |
| 102 Winding Wood, Carrollton, TX | 45678 | residential | 2800 | NULL |
| 103 Industrial Ave., Fort Worth, TX | 23456 | commercial | 50000 | 2005-06-01 |
| 104 Industrial Ave., Fort Worth, TX | 23456 | commercial | 80000 | 2005-06-01 |
| 105 Industrial Ave., Fort Worth, TX | 23456 | commercial | 90000 | 2005-06-01 |
| 210 Cherry Bark Lane, Plano, TX | 12321 | residential | 3200 | 2016-10-01 |
| 212 Cherry Bark Lane, Plano, TX | 12321 | residential | NULL | NULL |
| 214 Cherry Bark Lane, Plano, TX | 12321 | residential | NULL | NULL |
| 216 Cherry Bark Lane, Plano, TX | 12321 | residential | NULL | NULL |
| 300 Oak St., Dallas, TX | 12345 | residential | 3000 | 2000-01-01 |
| 302 Oak St., Dallas, TX | 12345 | residential | 4000 | 2001-02-01 |
| 304 Oak St., Dallas, TX | 12345 | residential | 1500 | 2002-03-01 |
| 306 Oak St., Dallas, TX | 12345 | residential | 1500 | 2003-04-01 |
| 308 Oak St., Dallas, TX | 12345 | residential | 2000 | 2003-04-01 |

18 rows in set (0.00 sec)

Insp_code_cost

```
mysql> mysql> select * from insp_code_cost;
```

| Code | begin | end | Cost |
|------|------------|------------|------|
| ELE | 1984-01-01 | 2018-11-19 | 100 |
| ELE | 2018-11-20 | NULL | 150 |
| FN2 | 1984-01-01 | NULL | 150 |
| FN3 | 1984-01-01 | NULL | 150 |
| FNL | 1984-01-01 | NULL | 200 |
| FRM | 1984-01-01 | NULL | 100 |
| HAC | 1984-01-01 | NULL | 100 |
| HIS | 1984-01-01 | NULL | 100 |
| PLU | 1984-01-01 | NULL | 100 |
| POL | 1984-01-01 | NULL | 50 |
| SAF | 1984-01-01 | NULL | 50 |

11 rows in set (0.00 sec)

Inspection_history

```
mysql> select * from inspection_history;
```

| id | Date | Type | Inspector_ID | score | notes | building |
|----|------------|------|--------------|-------|-----------------------|-------------------------------------|
| 1 | 2018-10-01 | FRM | 11103 | 100 | no problems noted | 100 Winding Wood, Carrollton, TX |
| 2 | 2018-10-01 | FRM | 11101 | 100 | no problems noted | 300 Oak St., Dallas, TX |
| 3 | 2018-10-01 | FRM | 11102 | 100 | no problems noted | 302 Oak St., Dallas, TX |
| 4 | 2018-10-02 | PLU | 11101 | 90 | minor leak, corrected | 300 Oak St., Dallas, TX |
| 5 | 2018-10-02 | PLU | 11102 | 25 | massive leaks | 302 Oak St., Dallas, TX |
| 6 | 2018-10-03 | ELE | 11101 | 80 | exposed junction box | 300 Oak St., Dallas, TX |
| 7 | 2018-10-04 | HAC | 11101 | 80 | duct needs taping | 300 Oak St., Dallas, TX |
| 8 | 2018-10-05 | FNL | 11101 | 90 | ready for owner | 300 Oak St., Dallas, TX |
| 9 | 2018-10-08 | PLU | 11102 | 50 | still leaking | 302 Oak St., Dallas, TX |
| 10 | 2018-10-12 | FRM | 11103 | 85 | no issues but messy | 210 Cherry Bark Lane, Plano, TX |
| 11 | 2018-10-12 | PLU | 11102 | 80 | no leaks, but messy | 302 Oak St., Dallas, TX |
| 12 | 2018-10-14 | SAF | 11104 | 100 | no problems noted | 210 Cherry Bark Lane, Plano, TX |
| 13 | 2018-10-14 | ELE | 11102 | 100 | no problems noted | 302 Oak St., Dallas, TX |
| 14 | 2018-10-20 | PLU | 11103 | 100 | everything working | 100 Winding Wood, Carrollton, TX |
| 15 | 2018-10-25 | ELE | 11103 | 100 | no problems noted | 100 Winding Wood, Carrollton, TX |
| 16 | 2018-11-01 | FRM | 11103 | 100 | no problems noted | 102 Winding Wood, Carrollton, TX |
| 17 | 2018-11-01 | HAC | 11102 | 80 | duct needs taping | 302 Oak St., Dallas, TX |
| 18 | 2018-11-02 | HAC | 11103 | 100 | no problems noted | 100 Winding Wood, Carrollton, TX |
| 19 | 2018-11-02 | PLU | 11103 | 90 | minor leak, corrected | 102 Winding Wood, Carrollton, TX |
| 20 | 2018-11-02 | FRM | 11105 | 100 | tbd | 105 Industrial Ave., Fort Worth, TX |
| 21 | 2018-11-02 | FNL | 11102 | 90 | ready for owner | 302 Oak St., Dallas, TX |
| 22 | 2018-11-03 | ELE | 11103 | 80 | exposed junction box | 102 Winding Wood, Carrollton, TX |
| 23 | 2018-11-04 | PLU | 11103 | 80 | duct needs sealing | 210 Cherry Bark Lane, Plano, TX |
| 24 | 2018-11-05 | POL | 11105 | 90 | ready for owner | 210 Cherry Bark Lane, Plano, TX |
| 25 | 2018-11-06 | FRM | 11105 | 100 | okay | 100 Industrial Ave., Fort Worth, TX |
| 26 | 2018-11-08 | PLU | 11102 | 100 | no leaks | 100 Industrial Ave., Fort Worth, TX |
| 27 | 2018-11-12 | POL | 11102 | 80 | pool equipment okay | 100 Industrial Ave., Fort Worth, TX |
| 28 | 2018-11-14 | FN3 | 11102 | 100 | no problems noted | 100 Industrial Ave., Fort Worth, TX |

```
28 rows in set (0.00 sec)
```

Inspection_type

```
mysql> mysql> select * from inspection_type;
```

| Code | Type |
|------|---------------------|
| ELE | Electrical |
| FN2 | Final - 2 needed |
| FN3 | Final - plumbing |
| FNL | Final |
| FRM | Framing |
| HAC | Heating/Cooling |
| HIS | Historical accuracy |
| PLU | Plumbing |
| POL | Pool |
| SAF | Safety |

10 rows in set (0.00 sec)

Inspector

```
mysql> select * from inspector;
```

| ID | Name | HireDate | is_retired |
|-------|-------------|------------|------------|
| 11101 | Inspector-1 | 1984-11-08 | |
| 11102 | Inspector-2 | 1994-11-08 | |
| 11103 | Inspector-3 | 2004-11-08 | |
| 11104 | Inspector-4 | 2014-11-08 | |
| 11105 | Inspector-5 | 2018-11-08 | |

5 rows in set (0.00 sec)

Pending_inspection

```
mysql> select * from pending_inspection;
```

| id | date | type | building |
|----|------------|------|-------------------------------------|
| 1 | 2018-09-01 | FNL | 105 Industrial Ave., Fort Worth, TX |
| 2 | 2018-10-26 | FRM | 212 Cherry Bark Lane, Plano, TX |
| 3 | 2018-11-04 | PLU | 212 Cherry Bark Lane, Plano, TX |

3 rows in set (0.00 sec)

Prerequisite

```
mysql> select * from prerequisite;
```

| Inspection_code | Prerequisite_code |
|-----------------|-------------------|
| FN2 | ELE |
| HAC | ELE |
| ELE | FRM |
| PLU | FRM |
| FNL | HAC |
| FN2 | PLU |
| FN3 | PLU |
| FNL | PLU |
| POL | PLU |

```
9 rows in set (0.00 sec)
```

Everyone: Write queries (and show the results) to answer the following questions:

1. List all buildings (building#, address, type) that have not passed a final (FNL, FN2, FN3) inspection.

Query:

```
select b.address from building b where b.address not in
(select building from inspection_history where score >= 75 and type like 'FN%');
```

Result:

```
mysql> select b.address from building b where b.address not in
-> (select building from inspection_history where score >= 75 and type like 'FN%');
+-----+
| address                                |
+-----+
| 210 Cherry Bark Lane, Plano, TX       |
| 212 Cherry Bark Lane, Plano, TX       |
| 214 Cherry Bark Lane, Plano, TX       |
| 216 Cherry Bark Lane, Plano, TX       |
| 100 Main St., Dallas, TX              |
| 304 Oak St., Dallas, TX               |
| 306 Oak St., Dallas, TX               |
| 308 Oak St., Dallas, TX               |
| 101 Industrial Ave., Fort Worth, TX   |
| 102 Industrial Ave., Fort Worth, TX   |
| 103 Industrial Ave., Fort Worth, TX   |
| 104 Industrial Ave., Fort Worth, TX   |
| 105 Industrial Ave., Fort Worth, TX   |
| 100 Winding Wood, Carrollton, TX      |
| 102 Winding Wood, Carrollton, TX      |
+-----+
15 rows in set (0.00 sec)

mysql> █
```

2. List the id, name of inspectors who have given at least one failing score.

Query:

```
select id, name from inspector where id in  
(select inspector_id from inspection_history where score < 75);
```

Result:

```
mysql> select id, name from inspector where id in  
-> (select inspector_id from inspection_history where score < 75);  
+-----+-----+  
| id    | name      |  
+-----+-----+  
| 11102 | Inspector-2 |  
+-----+-----+  
1 row in set (0.01 sec)
```

3. What inspection type(s) have never been failed?

Query:

```
select code from inspection_type where code not in (  
select type from inspection_history where score < 75);
```

Result:

```
mysql> select code from inspection_type where code not in (  
-> select type from inspection_history where score < 75);  
+-----+  
| code |  
+-----+  
| ELE  |  
| FN2  |  
| FN3  |  
| FNL  |  
| FRM  |  
| HAC  |  
| HIS  |  
| POL  |  
| SAF  |  
+-----+  
9 rows in set (0.01 sec)
```


4. What is the total cost of all inspections for builder 12345?

Query:

```
select sum(get_cost(it.code, ih.date)) from inspection_type it join
inspection_history ih on it.code = ih.type where ih.building in
(select bl.address from building bl where bl.builder_id=12345);
```

Result:

```
mysql> select sum(get_cost(it.code, ih.date)) from inspection_type it join
-> inspection_history ih on it.code = ih.type where ih.building in
-> (select bl.address from building bl where bl.builder_id=12345);
```

```
+-----+
| sum(get_cost(it.code, ih.date)) |
+-----+
|           1400 |
+-----+
1 row in set (0.03 sec)
```

5. What is the average score for all inspections performed by Inspector 102?

Query: select avg(score) from inspection_history where inspector_id = 11102;

Result:

```
mysql> select avg(score) from inspection_history where inspector_id = 11102;
```

```
+-----+
| avg(score) |
+-----+
|  80.5000 |
+-----+
1 row in set (0.00 sec)
```

6. How much revenue did FODB receive for inspections during October 2018?

Query:

```
select sum(get_cost(it.code, ih.date)) from inspection_type it join
inspection_history ih on ih.type = it.code where month(date) = 10 and year(date)=2018;
```

Result:

```
mysql> select sum(get_cost(it.code, ih.date)) from inspection_type it join
-> inspection_history ih on ih.type = it.code where month(date) = 10 and year(date)=2018;
```

```
+-----+
| sum(get_cost(it.code, ih.date)) |
+-----+
|           1550 |
```

```
+-----+
1 row in set (0.00 sec)
```

7. How much revenue was generated in 2018 by inspectors with more than 15 years seniority?

Query:

```
select sum(get_cost(it.code, ih.date)) from inspection_type it join
inspection_history ih on it.code = ih.type join
inspector i on i.id = ih.inspector_id where i.hiredate < date_add(sysdate(), interval -15 year);
```

Result:

```
mysql> select sum(get_cost(it.code, ih.date)) from inspection_type it join
-> inspection_history ih on it.code = ih.type join
-> inspector i on i.id = ih.inspector_id where i.hiredate < date_add(sysdate(), interval -15 year);
```

```
+-----+
| sum(get_cost(it.code, ih.date)) |
+-----+
|                1700 |
+-----+
1 row in set (0.00 sec)
```

Everyone: Today, it is November 20, 2018: (Demonstrate \equiv show the query and result)

8. Demonstrate the adding of a new 1600 sq ft residential building for builder #34567, located at 1420 Main St., Lewisville TX.

Queries:

- 1) select * from building where builder_id=34567;
- 2) insert into building values ('1420 Main St., Lewisville, TX', 34567, 'residential', 1600, NULL);
- 3) select * from building where builder_id=34567;

Results:

```
mysql> select * from building where builder_id=34567;
Empty set (0.00 sec)
```

```
mysql> insert into building values ('1420 Main St., Lewisville, TX', 34567, 'residential', 1600, NULL);
Query OK, 1 row affected (0.02 sec)
```

```
mysql> select * from building where builder_id=34567;
```

```
+-----+-----+-----+-----+-----+
| Address                | Builder_ID | Type       | Size | DateFirstActivity |
+-----+-----+-----+-----+-----+
| 1420 Main St., Lewisville, TX |      34567 | residential | 1600 | NULL              |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

9. Demonstrate the adding of an inspection on the building you just added. This framing inspection occurred on 11/21/2018 by inspector 104, with a score of 50, and note of “work not finished.”

Query: start transaction;

update building set datefirstactivity = '2018-11-21' where

address = '1420 Main St., Lewisville, TX';

insert into Inspection_History (Date, Type, Inspector_id, score, notes, building)

values ('2018-11-21', 'FRM', 104, 50, 'work not finished', '1420 Main St., Lewisville, TX');

commit;

Result:

```
mysql> start transaction;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> update building set datefirstactivity = '2018-11-21' where
```

```
-> address = '1420 Main St., Lewisville, TX';
```

```
Query OK, 1 row affected (0.01 sec)
```

```
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> insert into Inspection_History (Date, Type, Inspector_id, score, notes, building)
```

```
-> values ('2018-11-21', 'FRM', 104, 50, 'work not finished', '1420 Main St., Lewisville, TX');
```

```
Query OK, 1 row affected (0.00 sec)
```

```
mysql> commit;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from inspection_history where date = '2018-11-21'
```

```
-> ;
```

```
+-----+-----+-----+-----+-----+-----+
| id | Date       | Type | Inspector_ID | score | notes           | building                                     |
+-----+-----+-----+-----+-----+-----+-----+
| 29 | 2018-11-21 | FRM  |      11104 |    50 | work not finished | 1420 Main St., Lewisville, TX |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

10. Demonstrate changing the cost of an ELE inspection changed to \$150 effective today.

Query:

```
select * from insp_code_cost;
```

Result:

```
mysql> select * from insp_code_cost;
+-----+-----+-----+-----+
| Code | begin      | end   | Cost |
+-----+-----+-----+-----+
| ELE  | 1984-01-01 | NULL  | 100  |
| FN2  | 1984-01-01 | NULL  | 150  |
| FN3  | 1984-01-01 | NULL  | 150  |
| FNL  | 1984-01-01 | NULL  | 200  |
| FRM  | 1984-01-01 | NULL  | 100  |
| HAC  | 1984-01-01 | NULL  | 100  |
| HIS  | 1984-01-01 | NULL  | 100  |
| PLU  | 1984-01-01 | NULL  | 100  |
| POL  | 1984-01-01 | NULL  | 50   |
| SAF  | 1984-01-01 | NULL  | 50   |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

start transaction;

```
update insp_code_cost set end = '2018-11-19' where code = 'ELE' and end is NULL;
```

```
insert into insp_code_cost values
```

```
('ELE', '2018-11-20', NULL, 150);
```

commit;

```
select * from insp_code_cost;
```

```

mysql> start transaction;
Query OK, 0 rows affected (0.00 sec)

mysql> update insp_code_cost set end = '2018-11-19' where code = 'ELE' and end is NULL;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> insert into insp_code_cost values
-> ('ELE', '2018-11-20', NULL, 150);
Query OK, 1 row affected (0.00 sec)

mysql> commit;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from insp_code_cost;
+-----+-----+-----+-----+
| Code | begin      | end      | Cost |
+-----+-----+-----+-----+
| ELE  | 1984-01-01 | 2018-11-19 | 100 |
| ELE  | 2018-11-20 | NULL      | 150 |
| FN2  | 1984-01-01 | NULL      | 150 |
| FN3  | 1984-01-01 | NULL      | 150 |
| FNL  | 1984-01-01 | NULL      | 200 |
| FRM  | 1984-01-01 | NULL      | 100 |
| HAC  | 1984-01-01 | NULL      | 100 |
| HIS  | 1984-01-01 | NULL      | 100 |
| PLU  | 1984-01-01 | NULL      | 100 |
| POL  | 1984-01-01 | NULL      | 50  |
| SAF  | 1984-01-01 | NULL      | 50  |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

```

11. Demonstrate adding of an inspection on the building you just added. This electrical inspection occurred on 11/22/2018 by inspector 104, with a score of 60, and note of “lights not completed.”

Query:

```

insert into Inspection_History (Date, Type, Inspector_id, score, notes, building)
values ('2018-11-22', 'ELE', 104, 60, 'lights not completed', '1420 Main St., Lewisville, TX');

```

```

mysql> insert into Inspection_History
-> (Date, Type, Inspector_id, score, notes, building)
-> values
-> ('2018-11-22', 'ELE', 104, 60, 'lights not completed',
-> '1420 Main St., Lewisville, TX');
ERROR 1644 (45000): Prerequisites not met

```

12. Demonstrate changing the message of the FRM inspection on 11/2/2018 by inspector #105 to “all work completed per checklist.”

Query:

```
UPDATE inspection_history SET notes = 'all work completed per checklist'
WHERE inspector_id = 11105 AND date = '2018-11-02' AND type = 'FRM';
```

```
mysql> UPDATE inspection_history
-> SET
->     notes = 'all work completed per checklist'
-> WHERE
->     inspector_id = 11105
->         AND date = '2018-11-02'
->         AND type = 'FRM';
Query OK, 1 row affected (0.09 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> select * from inspection_history
```

```
-> where
```

```
-> notes like
```

```
-> 'all work completed per checklist';
```

```
+-----+-----+-----+-----+-----+-----+-----+
-----+
| id | Date      | Type | Inspector_ID | score | notes                                     | building |
+-----+-----+-----+-----+-----+-----+-----+
-----+
| 13 | 2018-11-02 | FRM  | 11105       | 100   | all work completed per checklist | 105 Industrial Ave., Fort Worth, TX |
+-----+-----+-----+-----+-----+-----+-----+
-----+
1 row in set (0.00 sec)
```

13. Demonstrate the adding of a POL inspection by inspector #103 on 11/28/2018 on the first building associated with builder 45678.

Query:

```
select * from building where builder_id = 45678;
```

```
insert into Inspection_History (Date, Type, Inspector_id, score, notes, building)
values ('2018-11-28', 'POL', 103, NULL, NULL, '100 Winding Wood, Carrollton, TX');
```

```
mysql> select * from building where builder_id = 45678;
```

| Address | Builder_ID | Type | Size | DateFirstActivity |
|----------------------------------|------------|-------------|------|-------------------|
| 100 Winding Wood, Carrollton, TX | 45678 | residential | 2500 | NULL |
| 102 Winding Wood, Carrollton, TX | 45678 | residential | 2800 | NULL |

```
2 rows in set (0.00 sec)
```

```
mysql> insert into Inspection_History (Date, Type, Inspector_id, score, notes, building)
-> values ('2018-11-28', 'POL', 103, NULL, NULL, '100 Winding Wood, Carrollton, TX');
ERROR 1644 (45000): Inspector can do at most 5 inspections per month
```

Graduate:

14. Inspector #101 will retire December 1, 2018. How do you handle this?

Alter table inspector add column RetiredDate date default NULL;

The implementation would use newly added column RetiredDate which has been set to NULL by default. The table can be updated and RetiredDate can be set to whenever an inspector retires. The system doesn't allow deletion of records.

When the inspector #101 retires on December 1, 2018, his RetiredDate would be set to same.

```
mysql> select * from inspector;
```

| ID | Name | HireDate | RetiredDate |
|-------|-------------|------------|-------------|
| 11101 | Inspector-1 | 1984-11-08 | NULL |
| 11102 | Inspector-2 | 1994-11-08 | NULL |
| 11103 | Inspector-3 | 2004-11-08 | NULL |
| 11104 | Inspector-4 | 2014-11-08 | NULL |
| 11105 | Inspector-5 | 2018-11-08 | NULL |

```
5 rows in set (0.00 sec)
```

```
mysql> update inspector set RetiredDate = '2018-12-1'
-> where id = 11101;
Query OK, 1 row affected (0.11 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
mysql> select * from inspector where retireddate is not null;
+-----+-----+-----+-----+
| ID    | Name      | HireDate | RetiredDate |
+-----+-----+-----+-----+
| 11101 | Inspector-1 | 1984-11-08 | 2018-12-01 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

While inserting the data into inspection_history table, the RetiredDate of the inspector is to be checked. If the Inspection_date is before the RetiredDate of the inspector or RetiredDate is NULL, the record can be inserted. Else rejected.

Leave your database in this state for customer final testing.

(END)