FODB Select statements

Select statements and their results for all the tables

Inspection_Type Table

```
mysql> select * from Inspection_type;
+------+--------------------+------+
| Code | Type               | Cost |
+------+--------------------+------+
| ELE  | Electrical         |  100 |
| FN2  | Final - 2 needed   |  150 |
| FN3  | Final - plumbing   |  150 |
| FNL  | Final              |  200 |
| FRM  | Framing            |  100 |
| HAC  | Heating/Cooling    |  100 |
| HIS  | Historical accuracy |  100 |
| PLU  | Plumbing           |  100 |
| POL  | Pool               |   50 |
| SAF  | Safety             |   50 |
+------+--------------------+------+
10 rows in set (0.00 sec)
```

Prerequisite Table

```
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)
```

Inspector table

```
mysql> select * from Inspector;
+-------+------------+------------+
| ID    | Name       | HireDate   |
+-------+------------+------------+
| 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)
```

Builder Table

```
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 Table

```
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)

Inspection_History Table

mysql> select * from inspection_history;

id	Date	Type	Inspector_ID	score	notes	building
1	2018-11-06	FRM	11105	100	okay	100 Industrial Ave., Fort Worth, TX
2	2018-11-08	PLU	11102	100	no leaks	100 Industrial Ave., Fort Worth, TX
3	2018-11-12	POL	11102	80	pool equipment okay	100 Industrial Ave., Fort Worth, TX
4	2018-11-14	FN3	11102	100	no problems noted	100 Industrial Ave., Fort Worth, TX
5	2018-10-01	FRM	11103	100	no problems noted	100 Winding Wood, Carrollton, TX
6	2018-10-20	PLU	11103	100	everything working	100 Winding Wood, Carrollton, TX
7	2018-10-25	ELE	11103	100	no problems noted	100 Winding Wood, Carrollton, TX
8	2018-11-02	HAC	11103	100	no problems noted	100 Winding Wood, Carrollton, TX
9	2018-11-14	FNL	11103	90	REJECT TOO MANY	100 Winding Wood, Carrollton, TX
10	2018-11-01	FRM	11103	100	no problems noted	102 Winding Wood, Carrollton, TX
11	2018-11-02	PLU	11103	90	minor leak, corrected	102 Winding Wood, Carrollton, TX
12	2018-11-03	ELE	11103	80	exposed junction box	102 Winding Wood, Carrollton, TX
13	2018-11-02	FRM	11105	100	tbd	105 Industrial Ave., Fort Worth, TX

```
| 14 | 2018-10-01 | FRM |     11101 |   100 | no problems noted    | 300 Oak St., Dallas, TX
|
| 15 | 2018-10-02 | PLU |     11101 |    90 | minor leak, corrected | 300 Oak St., Dallas, TX
|
| 16 | 2018-10-03 | ELE |     11101 |    80 | exposed junction box | 300 Oak St., Dallas, TX
|
| 17 | 2018-10-04 | HAC |     11101 |    80 | duct needs taping    | 300 Oak St., Dallas, TX
|
| 18 | 2018-10-05 | FNL |     11101 |    90 | ready for owner      | 300 Oak St., Dallas, TX
|
| 19 | 2018-10-01 | FRM |     11102 |   100 | no problems noted    | 302 Oak St., Dallas, TX
|
| 20 | 2018-10-02 | PLU |     11102 |    25 | massive leaks        | 302 Oak St., Dallas, TX
|
| 21 | 2018-10-08 | PLU |     11102 |    50 | still leaking        | 302 Oak St., Dallas, TX        |
| 22 | 2018-10-12 | FRM |     11103 |    85 | no issues but messy  | 210 Cherry Bark Lane,
Plano, TX    |
| 23 | 2018-10-14 | SAF |     11104 |   100 | no problems noted    | 210 Cherry Bark Lane,
Plano, TX    |
| 24 | 2018-10-12 | PLU |     11102 |    80 | no leaks, but messy  | 302 Oak St., Dallas, TX
|
| 25 | 2018-10-14 | ELE |     11102 |   100 | no problems noted    | 302 Oak St., Dallas, TX
|
| 26 | 2018-11-01 | HAC |     11102 |    80 | duct needs taping    | 302 Oak St., Dallas, TX
|
| 27 | 2018-11-02 | FNL |     11102 |    90 | ready for owner      | 302 Oak St., Dallas, TX
|
+----+------------+------+-------------+-------+--------------------+----------------------------------+
27 rows in set (0.00 sec)
```

Pending_Inspection table

```
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)
```

Updated ER diagram

Builder entity with attributes: Name, Address, Licence

builds relationship: Builder (0,M) — (1,1) Building
- Removed the m to n relationship among builder and building

Building entity with attributes: Location, Type, Size, DateFirstActivity
- Added new columns to Building table

has relationship: Building (0,M) — (1,1) Pending_Inspection
- Added a pending inspection table

Pending_Inspection entity with attribute: ID, Date

has relationship: Building (0,M) — (1,1) Inspection_history
- Status attribute has been removed

Inspection_history entity with attributes: Date, ID, Notes, Score
- The names underlined with yellow markers have been changed

has relationship involving Cost

Inspection_type entity with attributes: Code, Type, Cost
- Added new columns type and cost
- Prerequisite (0,N) — (0,M)
- has (0,M)

does relationship: Inspection_history (1,1) — (0,N) Inspector

Inspector entity with attributes: ID, HireDate, Name