

```

-- MySQL dump 10.13  Distrib 8.0.31, for Linux (aarch64)
--
-- Host: localhost    Database: CS7330Project
--
-- Server version 8.0.31

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8mb4 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `Builder`
--

DROP TABLE IF EXISTS `Builder`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `Builder` (
  `license_num` char(5) NOT NULL,
  `name` varchar(30) DEFAULT NULL,
  `address` varchar(40) DEFAULT NULL,
  PRIMARY KEY (`license_num`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `Builder`
--

LOCK TABLES `Builder` WRITE;
/*!40000 ALTER TABLE `Builder` DISABLE KEYS */;
INSERT INTO `Builder` VALUES ('12321','Builder-5','104 Main St., Mesquite, TX'),
('12345','Builder-1','100 Main St., Dallas, TX'),('23456','Builder-2','101 Main
St., Irving, TX'),('34567','Builder-3','102 Main St., Plano, TX'),
('45678','Builder-4','103 Main St., McKinney, TX');
/*!40000 ALTER TABLE `Builder` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `Building`
--

DROP TABLE IF EXISTS `Building`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `Building` (
  `address` varchar(40) NOT NULL,
  `type` varchar(30) DEFAULT NULL,
  `size` int DEFAULT NULL,
  `open_date` date DEFAULT NULL,
  `builder_license` char(5) DEFAULT NULL,
  PRIMARY KEY (`address`),

```

```

    KEY `builder_license` (`builder_license`),
    CONSTRAINT `Building_ibfk_1` FOREIGN KEY (`builder_license`) REFERENCES `Builder`
(`license_num`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Dumping data for table `Building`
--

```

```

LOCK TABLES `Building` WRITE;
/*!40000 ALTER TABLE `Building` DISABLE KEYS */;
INSERT INTO `Building` VALUES ('100 Industrial Ave., Fort Worth,
TX','commerical',100000,'2005-06-01','23456'),('100 Main St., Dallas,
TX','commerical',250000,'1999-12-31','12345'),('100 Winding Wood, Carrollton,
TX','residential',2500,NULL,'45678'),('101 Industrial Ave., Fort Worth,
TX','commerical',80000,'2005-06-01','23456'),('102 Industrial Ave., Fort Worth,
TX','commerical',75000,'2005-06-01','23456'),('102 Winding Wood, Carrollton,
TX','residential',2800,NULL,'45678'),('103 Industrial Ave., Fort Worth,
TX','commerical',50000,'2005-06-01','23456'),('104 Industrial Ave., Fort Worth,
TX','commerical',80000,'2005-06-01','23456'),('105 Industrial Ave., Fort Worth,
TX','commerical',90000,'2005-06-01','23456'),('1420 Main St., Lewisville
TX','residential',1600,NULL,'34567'),('210 Cherry Bark Lane, Plano,
TX','residential',3200,'2016-10-01','12321'),('212 Cherry Bark Lane, Plano,
TX','residential',NULL,NULL,'12321'),('214 Cherry Bark Lane, Plano,
TX','residential',NULL,NULL,'12321'),('216 Cherry Bark Lane, Plano,
TX','residential',NULL,NULL,'12321'),('300 Oak St., Dallas,
TX','residential',3000,'2000-01-01','12345'),('302 Oak St., Dallas,
TX','residential',4000,'2001-02-01','12345'),('304 Oak St., Dallas,
TX','residential',1500,'2002-03-01','12345'),('306 Oak St., Dallas,
TX','residential',1500,'2003-04-01','12345'),('308 Oak St., Dallas,
TX','residential',2000,'2003-04-01','12345');
/*!40000 ALTER TABLE `Building` ENABLE KEYS */;
UNLOCK TABLES;

```

```

--
-- Table structure for table `Inspection`
--

```

```

DROP TABLE IF EXISTS `Inspection`;
/*!40101 SET @saved_cs_client = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `Inspection` (
  `type` varchar(3) NOT NULL,
  `score` int DEFAULT NULL,
  `date` date NOT NULL,
  `inspectorID` char(3) DEFAULT NULL,
  `address` varchar(40) NOT NULL,
  `text` varchar(8000) DEFAULT NULL,
  `cost` decimal(10,2) DEFAULT NULL,
  PRIMARY KEY (`type`,`date`,`address`),
  KEY `inspectorID` (`inspectorID`),
  KEY `address` (`address`),
  CONSTRAINT `Inspection_ibfk_1` FOREIGN KEY (`type`) REFERENCES `Inspection_Type`
(`type`),
  CONSTRAINT `Inspection_ibfk_2` FOREIGN KEY (`inspectorID`) REFERENCES `Inspector`
(`ID`),
  CONSTRAINT `Inspection_ibfk_3` FOREIGN KEY (`address`) REFERENCES `Building`
(`address`)

```

```

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `Inspection`
--

LOCK TABLES `Inspection` WRITE;
/*!40000 ALTER TABLE `Inspection` DISABLE KEYS */;
INSERT INTO `Inspection` VALUES ('ELE',80,'2022-10-03','101','300 Oak St., Dallas, TX','exposed junction box',100.00),('ELE',100,'2022-10-14','102','302 Oak St., Dallas, TX','no problems noted',100.00),('ELE',100,'2022-10-25','103','100 Winding Wood, Carrollton, TX','no problems noted',100.00),('ELE',80,'2022-11-03','103','102 Winding Wood, Carrollton, TX','exposed junction box',100.00),('ELE',100,'2023-04-21','105','100 Industrial Ave., Fort Worth, TX','Testing for Question #13',150.00),('FN3',100,'2022-11-14','102','100 Industrial Ave., Fort Worth, TX','no problems noted',150.00),('FNL',90,'2022-10-05','101','300 Oak St., Dallas, TX','ready for owner',200.00),('FNL',90,'2022-11-02','102','302 Oak St., Dallas, TX','ready for owner',200.00),('FRM',100,'2022-10-01','103','100 Winding Wood, Carrollton, TX','no problems noted',100.00),('FRM',100,'2022-10-01','101','300 Oak St., Dallas, TX','no problems noted',100.00),('FRM',100,'2022-10-01','102','302 Oak St., Dallas, TX','no problems noted',100.00),('FRM',85,'2022-10-12','103','210 Cherry Bark Lane, Plano, TX','no issues but messy',100.00),('FRM',100,'2022-11-01','103','102 Winding Wood, Carrollton, TX','no problems noted',100.00),('FRM',100,'2022-11-02','105','105 Industrial Ave., Fort Worth, TX','all work completed per checklist.',100.00),('FRM',100,'2022-11-06','105','100 Industrial Ave., Fort Worth, TX','okay',100.00),('FRM',50,'2022-11-21','104','1420 Main St., Lewisville TX','work not finished.',100.00),('HAC',80,'2022-10-04','101','300 Oak St., Dallas, TX','duct needs taping',100.00),('HAC',80,'2022-11-01','102','302 Oak St., Dallas, TX','duct needs taping',100.00),('HAC',100,'2022-11-02','103','100 Winding Wood, Carrollton, TX','no problems noted',100.00),('PLU',90,'2022-10-02','101','300 Oak St., Dallas, TX','minor leak, corrected',100.00),('PLU',25,'2022-10-02','102','302 Oak St., Dallas, TX','massive leaks',100.00),('PLU',50,'2022-10-08','102','302 Oak St., Dallas, TX','still leaking',100.00),('PLU',80,'2022-10-12','102','302 Oak St., Dallas, TX','no leaks, but messy',100.00),('PLU',100,'2022-10-20','103','100 Winding Wood, Carrollton, TX','everything working',100.00),('PLU',90,'2022-11-02','103','102 Winding Wood, Carrollton, TX','minor leak, corrected',100.00),('PLU',80,'2022-11-04','103','210 Cherry Bark Lane, Plano, TX','duct needs sealing',100.00),('PLU',100,'2022-11-08','102','100 Industrial Ave., Fort Worth, TX','no leaks',100.00),('POL',90,'2022-11-05','105','210 Cherry Bark Lane, Plano, TX','ready for owner',50.00),('POL',80,'2022-11-12','102','100 Industrial Ave., Fort Worth, TX','pool equipment okay',50.00),('SAF',100,'2022-10-14','104','210 Cherry Bark Lane, Plano, TX','no problems noted',50.00);
/*!40000 ALTER TABLE `Inspection` ENABLE KEYS */;
UNLOCK TABLES;
/*!50003 SET @saved_cs_client      = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client  = latin1 */ ;
/*!50003 SET character_set_results = latin1 */ ;
/*!50003 SET collation_connection  = latin1_swedish_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = */ ;
'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`BINS_Inspection1` BEFORE INSERT ON `Inspection` FOR EACH ROW BEGIN
DECLARE tempdate DATE;

```

```

SELECT hire_date INTO tempdate
FROM Inspector
WHERE new.inspectorID = Inspector.ID;
IF new.date < tempdate
THEN
SIGNAL SQLSTATE'45000' set MESSAGE_TEXT = "Unavailble inpector. Inspector needs to
be hired before the date of the inspection";
END IF;
END *///;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client     = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = latin1 */ ;
/*!50003 SET character_set_results = latin1 */ ;
/*!50003 SET collation_connection = latin1_swedish_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = */ ;
'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVI
SION_BY_ZERO,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`BINS_Inspection2` BEFORE INSERT ON `Inspection` FOR EACH ROW BEGIN
DECLARE inspect_Mo INT;
SELECT COUNT(*) INTO inspect_Mo
FROM Inspection
WHERE inspectorID = new.inspectorID AND MONTH(date) = MONTH(new.date) AND
YEAR(date) = YEAR(new.date);
IF inspect_Mo > 4
THEN
SIGNAL SQLSTATE'45000' set MESSAGE_TEXT = "Cannot assign the inspection to this
inspector. Inspector has reached monthly inspection limit";
END IF;
END *///;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client     = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = latin1 */ ;
/*!50003 SET character_set_results = latin1 */ ;
/*!50003 SET collation_connection = latin1_swedish_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = */ ;
'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVI
SION_BY_ZERO,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`BINS_Inspection3` BEFORE INSERT ON `Inspection` FOR EACH ROW BEGIN
DECLARE done INT DEFAULT FALSE;
DECLARE prereq_score INT;
DECLARE prereq VARCHAR(3);

```

```

DECLARE cur CURSOR FOR SELECT prerequisite_type FROM Prerequisite WHERE
inspection_type = new.type;
DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;
OPEN cur;
    my_loop: LOOP
        FETCH cur INTO prereq;
        IF done THEN LEAVE my_loop;
        END IF;
        SELECT score INTO prereq_score
        FROM Inspection
        WHERE type = prereq AND address = new.address
        ORDER BY score DESC
        LIMIT 1;
        IF prereq_score < 75 OR prereq_score IS NULL
        THEN
            SIGNAL SQLSTATE'45000' set MESSAGE_TEXT = "Cannot perform this inspection
until its prerequisite inspections are passed";
        END IF;
    END LOOP;
CLOSE cur;
END *///;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client     = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = latin1 */ ;
/*!50003 SET character_set_results = latin1 */ ;
/*!50003 SET collation_connection = latin1_swedish_ci */ ;
/*!50003 SET @saved_sql_mode       = @@sql_mode */ ;
/*!50003 SET sql_mode              = */ ;
'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVI
SION_BY_ZERO,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`BINS_Inspection4` BEFORE INSERT ON `Inspection` FOR EACH ROW BEGIN
DECLARE newCost DECIMAL(10,2);
SELECT cost INTO newCost
FROM Inspection_Type
WHERE new.type = type;
SET new.cost = newCost;
IF newCost IS NULL
THEN
    SIGNAL SQLSTATE'45000' set MESSAGE_TEXT = "This inspection type does not exist";
END IF;
END *///;
DELIMITER ;
/*!50003 SET sql_mode            = @saved_sql_mode */ ;
/*!50003 SET character_set_client = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_col_connection */ ;
/*!50003 SET @saved_cs_client     = @@character_set_client */ ;
/*!50003 SET @saved_cs_results     = @@character_set_results */ ;
/*!50003 SET @saved_col_connection = @@collation_connection */ ;
/*!50003 SET character_set_client = latin1 */ ;
/*!50003 SET character_set_results = latin1 */ ;

```

```

/*!50003 SET collation_connection = latin1_swedish_ci */ ;
/*!50003 SET @saved_sql_mode      = @@sql_mode */ ;
/*!50003 SET sql_mode             =
'ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE,ERROR_FOR_DIVI
SION_BY_ZERO,NO_ENGINE_SUBSTITUTION' */ ;
DELIMITER ;;
/*!50003 CREATE*/ /*!50017 DEFINER=`root`@`localhost`*/ /*!50003 TRIGGER
`Update_Inspection` BEFORE UPDATE ON `Inspection` FOR EACH ROW BEGIN
IF old.score <> new.score
THEN
SIGNAL SQLSTATE'45000' set MESSAGE_TEXT = "Cannot change the score of an
inspection";
END IF;
END */;;
DELIMITER ;
/*!50003 SET sql_mode              = @saved_sql_mode */ ;
/*!50003 SET character_set_client  = @saved_cs_client */ ;
/*!50003 SET character_set_results = @saved_cs_results */ ;
/*!50003 SET collation_connection = @saved_coll_connection */ ;

```

```

--
-- Table structure for table `Inspection_Type`
--

```

```

DROP TABLE IF EXISTS `Inspection_Type`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `Inspection_Type` (
  `type` varchar(3) NOT NULL,
  `name` varchar(30) DEFAULT NULL,
  `cost` decimal(10,2) DEFAULT NULL,
  PRIMARY KEY (`type`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

```

```

--
-- Dumping data for table `Inspection_Type`
--

```

```

LOCK TABLES `Inspection_Type` WRITE;
/*!40000 ALTER TABLE `Inspection_Type` DISABLE KEYS */;
INSERT INTO `Inspection_Type` VALUES ('ELE','Electrical',150.00),('FN2','Final - 2
needed',150.00),('FN3','Final - plumbing',150.00),('FNL','Final',200.00),
('FRM','Framing',100.00),('HAC','Heating/Cooling',100.00),('HIS','Historical
Preservation',100.00),('PLU','Plumbing',100.00),('POL','Pool',50.00),
('SAF','Safety',50.00);
/*!40000 ALTER TABLE `Inspection_Type` ENABLE KEYS */;
UNLOCK TABLES;

```

```

--
-- Table structure for table `Inspector`
--

```

```

DROP TABLE IF EXISTS `Inspector`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `Inspector` (
  `ID` char(3) NOT NULL,
  `name` varchar(30) DEFAULT NULL,

```

```

    `hire_date` date DEFAULT NULL,
    PRIMARY KEY (`ID`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `Inspector`
--

LOCK TABLES `Inspector` WRITE;
/*!40000 ALTER TABLE `Inspector` DISABLE KEYS */;
INSERT INTO `Inspector` VALUES ('101','Inspector-1','1984-11-08'),
('102','Inspector-2','1994-11-08'),('103','Inspector-3','2004-11-08'),
('104','Inspector-4','2014-11-01'),('105','Inspector-5','2019-11-01');
/*!40000 ALTER TABLE `Inspector` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `Prerequisite`
--

DROP TABLE IF EXISTS `Prerequisite`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `Prerequisite` (
  `inspection_type` varchar(3) NOT NULL,
  `prerequisite_type` varchar(3) NOT NULL,
  PRIMARY KEY (`inspection_type`,`prerequisite_type`),
  KEY `prerequisite_type` (`prerequisite_type`),
  CONSTRAINT `Prerequisite_ibfk_1` FOREIGN KEY (`inspection_type`) REFERENCES
`Inspection_Type` (`type`),
  CONSTRAINT `Prerequisite_ibfk_2` FOREIGN KEY (`prerequisite_type`) REFERENCES
`Inspection_Type` (`type`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `Prerequisite`
--

LOCK TABLES `Prerequisite` WRITE;
/*!40000 ALTER TABLE `Prerequisite` DISABLE KEYS */;
INSERT INTO `Prerequisite` VALUES ('FN2','ELE'),('HAC','ELE'),('ELE','FRM'),
('PLU','FRM'),('FNL','HAC'),('FN2','PLU'),('FN3','PLU'),('FNL','PLU'),
('POL','PLU');
/*!40000 ALTER TABLE `Prerequisite` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2023-04-26 21:36:23

```