

## Spooky Schema

Spooky.vacation(vacation\_id INT, destination VARCHAR, peak\_time DATE, number\_of\_activities INT, travel\_time INT)

Primary key: vacation\_id,

Candidate keys: destination

Superkeys: (1) vacation\_id, destination, peak\_time, number\_of\_activities, travel\_time; (2) vacation\_id, destination, peak\_time, number\_of\_activities; (3) vacation\_id, destination, peak\_time, travel\_time; (4) vacation\_id, destination, number\_of\_activities, travel\_time; (5) vacation\_id, peak\_time, number\_of\_activities, travel\_time; (6) destination, peak\_time, number\_of\_activities, travel\_time; (7) vacation\_id, destination, peak\_time; (8) vacation\_id, destination, number\_of\_activities; (9) vacation\_id, destination, travel\_time; (10) vacation\_id, peak\_time, number\_of\_activities; (11) vacation\_id, peak\_time, travel\_time; (12) vacation\_id, number\_of\_activities, travel\_time; (13) destination, peak\_time, number\_of\_activities; (14) destination, peak\_time, travel\_time; (15) destination, number\_of\_activities, travel\_time; (16) peak\_time, number\_of\_activities, travel\_time; (17) vacation\_id, destination; (18) vacation\_id, peak\_time; (19) vacation\_id, number\_of\_activities; (20) vacation\_id, travel\_time; (21) destination, peak\_time; (22) destination, number\_of\_activities; (23) destination, travel\_time; (24) peak\_time, number\_of\_activities; (25) peak\_time, travel\_time; (26) number\_of\_activities, travel\_time; (27) vacation\_id; (28) destination; (29) peak\_time; (30) number\_of\_activities; (31) travel\_time

Spooky.family(family\_id INT, name VARCHAR, relation VARCHAR, age INT, vacation\_length INT)

Primary key: family\_id

Candidate keys: name, relation

Superkeys: (1) family\_id, name, relation, age, vacation\_length; (2) family\_id, name, relation, age; (3) family\_id, name, relation, vacation\_length; (4) family\_id, name, age, vacation\_length; (5) family\_id, relation, age, vacation\_length; (6) name, relation, age, vacation\_length; (7) family\_id, name, relation; (8) family\_id, name, age; (9) family\_id, name, vacation\_length; (10) family\_id, relation, age; (11) family\_id, relation, vacation\_length; (12) family\_id, age, vacation\_length; (13) name, relation, age; (14) name, relation, vacation\_length; (15) name, age, vacation\_length; (16) relation, age, vacation\_length; (17) family\_id, name; (18) family\_id, relation; (19) family\_id, age; (20) family\_id, vacation\_length; (21) name, relation; (22) name, age; (23) name, vacation\_length; (24) relation, age; (25) relation, vacation\_length; (26) age, vacation\_length; (27) family\_id; (28) name; (29) relation; (30) age; (31) vacation\_length

Spooky.activities(activity\_id INT, activity VARCHAR, destination VARCHAR, how\_many INT, who\_suggested VARCHAR, peak\_time DATE)

Primary key: activity\_id

Candidate keys: activity

Superkeys: (1) activity\_id, destination, how\_many, who\_suggested, peak\_time, activity; (2) activity\_id, destination, how\_many, who\_suggested, peak\_time; (3) activity\_id, destination, how\_many, who\_suggested, activity; (4) activity\_id, destination, how\_many, peak\_time, activity; (5) activity\_id, destination, who\_suggested, peak\_time, activity; (6) activity\_id, how\_many, who\_suggested, peak\_time, activity; (7) destination, how\_many, who\_suggested,

peak\_time, activity; (8) activity\_id, destination, how\_many, who\_suggested; (9) activity\_id, destination, how\_many, peak\_time; (10) activity\_id, destination, how\_many, activity; (11) activity\_id, destination, who\_suggested, peak\_time; (12) activity\_id, destination, who\_suggested, activity; (13) activity\_id, destination, peak\_time, activity; (14) activity\_id, how\_many, who\_suggested, peak\_time; (15) activity\_id, how\_many, who\_suggested, activity; (16) activity\_id, how\_many, peak\_time, activity; (17) activity\_id, who\_suggested, peak\_time, activity; (18) destination, how\_many, who\_suggested, peak\_time; (19) destination, how\_many, who\_suggested, activity; (20) destination, how\_many, peak\_time, activity; (21) destination, who\_suggested, peak\_time, activity; (22) how\_many, who\_suggested, peak\_time, activity; (23) activity\_id, destination, how\_many; (24) activity\_id, destination, who\_suggested; (25) activity\_id, destination, peak\_time; (26) activity\_id, destination, activity; (27) activity\_id, how\_many, who\_suggested; (28) activity\_id, how\_many, peak\_time; (29) activity\_id, how\_many, activity; (30) activity\_id, who\_suggested, peak\_time; (31) activity\_id, who\_suggested, activity; (32) activity\_id, peak\_time, activity; (33) destination, how\_many, who\_suggested; (34) destination, how\_many, peak\_time; (35) destination, how\_many, activity; (36) destination, who\_suggested, peak\_time; (37) destination, who\_suggested, activity; (38) destination, peak\_time, activity; (39) how\_many, who\_suggested, peak\_time; (40) how\_many, who\_suggested, activity; (41) how\_many, peak\_time, activity; (42) who\_suggested, peak\_time, activity; (43) activity\_id, destination; (44) activity\_id, how\_many; (45) activity\_id, who\_suggested; (46) activity\_id, peak\_time; (47) activity\_id, activity; (48) destination, how\_many; (49) destination, who\_suggested; (50) destination, peak\_time; (51) destination, activity; (52) how\_many, who\_suggested; (53) how\_many, peak\_time; (54) how\_many, activity; (55) who\_suggested, peak\_time; (56) who\_suggested, activity; (57) peak\_time, activity; (58) activity\_id; (59) destination; (60) how\_many; (61) who\_suggested; (62) peak\_time; (63) activity

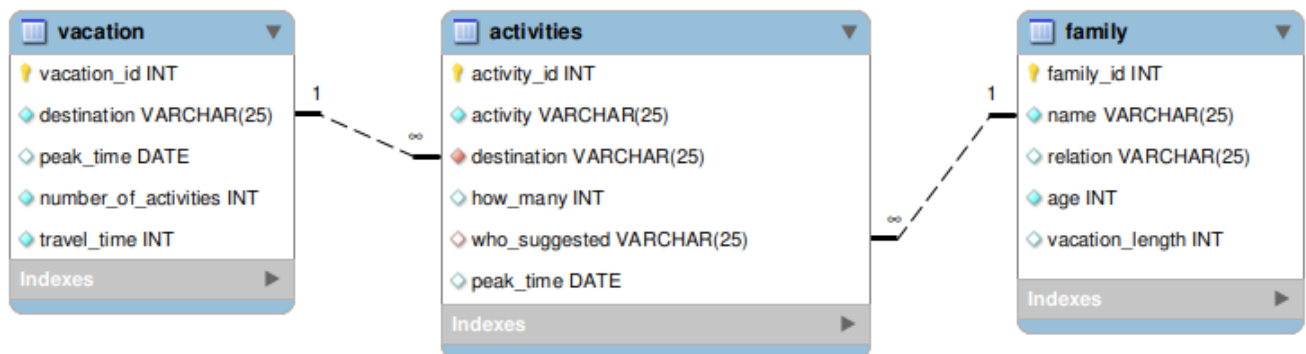


fig 1. diagram

```
CREATE SCHEMA Spooky;
```

```
CREATE TABLE Spooky.vacation(  
    vacation_id INT AUTO_INCREMENT PRIMARY KEY,  
    destination VARCHAR(25) UNIQUE NOT NULL,  
    peak_time DATE,  
    number_of_activities INT NOT NULL,  
    travel_time INT NOT NULL  
);
```

```
CREATE TABLE Spooky.family(  
    family_id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(25) UNIQUE NOT NULL,  
    relation VARCHAR(25),  
    age INT NOT NULL,  
    vacation_length INT,  
    UNIQUE (name, relation)  
);
```

```
CREATE TABLE Spooky.activities(  
    activity_id INT AUTO_INCREMENT PRIMARY KEY,  
    activity VARCHAR(25) UNIQUE NOT NULL,  
    destination VARCHAR(25) NOT NULL,  
    how_many INT,  
    who_suggested VARCHAR(25),  
    peak_time DATE,  
    FOREIGN KEY (destination) REFERENCES Spooky.vacation(destination),  
    FOREIGN KEY (who_suggested) REFERENCES Spooky.family(name)  
);
```

```
INSERT INTO Spooky.vacation (destination, peak_time, number_of_activities, travel_time)  
VALUES ('Transylvania', '2023-10-31', 5, 720);
```

```
INSERT INTO Spooky.vacation (destination, peak_time, number_of_activities, travel_time)  
VALUES ('Salem', '2023-10-31', 3, 90);
```

```
INSERT INTO Spooky.family (name, relation, age, vacation_length)  
VALUES ('Wednesday Addams', 'Daughter', 16, 7);
```

```
INSERT INTO Spooky.family(name, relation, age, vacation_length)  
VALUES ('Pugsley Addams', 'Son', 14, 7);
```

```
INSERT INTO Spooky.activities (activity, destination, peak_time)  
VALUES ('Séance', 'Salem', 2023-10-31)
```

```
INSERT INTO Spooky.activities (activity, destination, peak_time)  
VALUES ("Trick-or-treating", 'Salem', 2023-10-31)
```