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--Create a h2 database with interactive mode
--from h2/bin folder--> java -cp h2-*.jar org.h2.tools.Shell
--for an embedded local connection example path-->jdbc:h2:~/test
--for in memory use ---> jdbc:h2:mem:test

--Create and initialise sport categories
CREATE TABLE Categories ( CategoryID int, Name varchar(255), PRIMARY KEY (CategoryID));
INSERT INTO Categories (CategoryID, Name) VALUES (1, 'Soccer');
INSERT INTO Categories (CategoryID, Name) VALUES (2, 'Hockey');
INSERT INTO Categories (CategoryID, Name) VALUES (3, 'NBA');
INSERT INTO Categories (CategoryID, Name) VALUES (4, 'NFL');
INSERT INTO Categories (CategoryID, Name) VALUES (5, 'NHL');
INSERT INTO Categories (CategoryID, Name) VALUES (6, 'Tennis');
INSERT INTO Categories (CategoryID, Name) VALUES (7, 'Racing');

--Create and initialise some teams with foreign key to categories
CREATE TABLE Teams ( TeamID int primary key, _CategoryID int, Name varchar(255));
ALTER TABLE Teams ADD FOREIGN KEY (_CategoryID) REFERENCES Categories(CategoryID);
INSERT INTO Teams ( TeamId, Name , _CategoryID) VALUES (10000, 'Salzburg', 1);
INSERT INTO Teams ( TeamId, Name , _CategoryID) VALUES (10001, 'Sturm', 1);
INSERT INTO Teams ( TeamId, Name , _CategoryID) VALUES (20000, 'KAC', 2);
INSERT INTO Teams ( TeamId, Name , _CategoryID) VALUES (20001, 'Capitols', 2);

--Create event table and two test events from exercise
CREATE TABLE Events ( EventID int, DateTime timestamp(0));
INSERT INTO Events (EventID, DateTime) VALUES (1000, '2019-07-18 18:30:00');
INSERT INTO Events (EventID, DateTime) VALUES (1001, '2019-10-23 09:45:00');
INSERT INTO Events (EventID, DateTime) VALUES (1002, '2021-10-23 14:45:00');

--Create n to m EventTeam table from Events and Teams
CREATE TABLE EventTeam (_EventID int, _TeamID int, Points int);
ALTER TABLE EventTeam ADD FOREIGN KEY (_EventID) REFERENCES Events(EventID);
ALTER TABLE EventTeam ADD FOREIGN KEY (_TeamID) REFERENCES Teams(TeamID);
INSERT INTO EventTeam ( _EventID, _TeamID, Points) VALUES ( 1001, 20000, 3 );
INSERT INTO EventTeam ( _EventID, _TeamID, Points) VALUES ( 1000, 10000, 1 );
INSERT INTO EventTeam ( _EventID, _TeamID, Points) VALUES ( 1000, 10001, 2 );
INSERT INTO EventTeam ( _EventID, _TeamID, Points) VALUES ( 1001, 20001, 5 );

--queries to try

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SELECT * FROM Teams;

SELECT * FROM Categories;

SELECT * FROM Events;

SELECT * FROM EventTeam;
```

```
SELECT DISTINCT e.DateTime as Datum, t.Name as Mannschaft

        FROM Events e

        JOIN EventTeam et ON et._EventID = e.EventID

        JOIN Teams t ON t.TeamID = et._TeamID

        ORDER BY e.DateTime;
```

```
SELECT DISTINCT e1.DateTime as Datum, t1.Name

        FROM Events e1, Events e2

        JOIN EventTeam et ON et._EventID = e1.EventID

        JOIN Teams t1 ON t1.TeamID = et._TeamID

        JOIN Categories c on t1._CategoryID = c.CategoryID

        WHERE e1.DateTime = e2.DateTime

        ORDER BY e1.DateTime;
```

```
SELECT t.name

FROM Teams t

JOIN EventTeam et ON et._TeamID = t.TeamID

JOIN Events e ON e.EventID = et._EventID

WHERE e.DateTime = '2019-10-23 09:45:00';
```

```
SELECT e.DateTime as Datum, t.Name as Mannschaft, c.Name as Kategorie

        FROM Events e

        JOIN EventTeam et ON et._EventID = e.EventID

        JOIN Teams t ON t.TeamID = et._TeamID

        JOIN Categories c on t._CategoryID = c.CategoryID

        WHERE c.Name LIKE 'Soccer'

        ORDER BY e.DateTime;
```