

Defining a Foreign key constraint in H2 Databases

Asked 6 years, 3 months ago Modified 3 years, 5 months ago Viewed 56k times



I am new in coding so I made a tables in SQL server and it worked, so i used the same command in H2 and it said I have a syntax problems with the second table, someone can help?

46



```
CREATE TABLE TOURISTINFO(  
  TOURISTINFO_ID INT PRIMARY KEY,  
  NAME VARCHAR(25) NOT NULL,  
  NATIONALITY VARCHAR(15) NOT NULL  
)
```

```
CREATE TABLE PLANETICKETS(  
  DESTINATION VARCHAR(10) NOT NULL,  
  TICKETPRICE NUMERIC(8,2) NOT NULL,  
  TOURISTINFO_ID INT FOREIGN KEY REFERENCES TOURISTINFO
```



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GENERATED, NOT, NULL,
FAULT, SEQUENCE, SELECTIVITY,
REFERENCES, ,,); SQL

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edited Oct 23, 2017 at 1:56



David Brossard

13.4k 6 55 85

asked Jan 6, 2017 at 22:42



I3kov

461 1 4 4

What is the exact wording of the error? – David Brossard Jan 6, 2017 at 23:12

Syntax error in SQL statement "CREATE TABLE PLANETICKETS(DESTINATION VARCHAR(10) NOT NULL, TICKETPRICE NUMERIC(8,2) NOT NULL, TOURISTINFO_ID INT FOREIGN[*] KEY REFERENCES TOURISTINFO); expected "(, FOR, UNSIGNED, NOT, NULL, AS, DEFAULT, GENERATED, NOT, NULL, AUTO_INCREMENT, BIGSERIAL, SERIAL, IDENTITY, NULL_TO_DEFAULT, SEQUENCE, SELECTIVITY, COMMENT, CONSTRAINT, PRIMARY, UNIQUE, NOT, NULL, CHECK, REFERENCES, ,,)";

– I3kov Jan 6, 2017 at 23:15

3 Answers

Sorted by: Highest score (default)



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One-step process

```
CREATE TABLE PLANETICKETS(  
  DESTINATION VARCHAR(10) NOT NULL,  
  TICKETPRICE NUMERIC(8,2) NOT NULL,  
  TOURISTINFO_ID INT,  
  foreign key (TOURISTINFO_ID) references touristinfo(TOURISTINFO_ID)  
)
```

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edited Oct 8, 2019 at 13:09

answered Jan 6, 2017 at 23:17



GreenGiant

4,838 1 47 75



David Brossard

13.4k 6 55 85

1 yes, it works. But can we view the schema as well in h2 database? – Vithursa Mahendrarajah Apr 24, 2018 at 7:01

You can export the schema in H2 using SCRIPT TO. See this other Q&A: stackoverflow.com/questions/3256694/ – David Brossard Apr 29, 2018 at 4:20



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TOURISTINFO_ID) REFERENCES

named explicitly, otherwise H2 assigns it a name based on it's own naming scheme e.g.

y avoiding ambiguity on use of the name and referencing the name directly defined

previously e.g.

```
ALTER TABLE PLANETICKETS DROP CONSTRAINT FK_PLANETICKET_TOURIST;  
ALTER TABLE PLANETICKETS ADD CONSTRAINT FK_PLANETICKET_TOURIST FOREIGN KEY  
(TOURISTINFO_ID) REFERENCES TOURISTINFO(TOURISTINFO_ID) ON DELETE CASCADE;
```

I have started doing this as standard, based on my use of Flyway for an installable software product.

In theory the sequence of Flyway migrations should result in constraints (including Foreign Keys) being applied in the same order and therefore H2 should assign the same name in each copy of database. However, the worry point is removed if a direct name is assigned - one which is referenced in previous migration scripts - rather than one deduced from checking the assigned name in a single database instance.

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edited Nov 15, 2019 at 12:16

answered Nov 15, 2019 at 12:09



Dazed

1,009 9 34

1 not sure why you were downvoted to 0. This is exactly what I was looking for. This way I can created a named foreign key in a syntax valid in mysql, mariadb and



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-- no need for

nit to reference explicitly the `TOURISTINFO_ID` column because H2 knows what column is

answered Apr 19, 2019 at 10:30

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- 1 I do not know why you are downvoted. Actually I saw from my experiences the same problem has different solutions and works differently for different people. For me, other solution did not work but yours is working. I do not know, because I remember I created a foreign key in the H2 database before as the prescribed way like the above solution. But this time it was not working for me. I just came to the end and saw your solution. And it works just by following the " -- no need for touristinfo(TOURISTINFO_ID)". Thank you. – [Noman_ibrahim](#) Mar 29, 2020 at 7:17
-



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