

## Avaliação – Banco de dados – M1

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### Atividade 1:

```
5 • create table Student(  
6     Roll_No int not null primary key,  
7     Name varchar(40),  
8     DOB varchar(10)  
9 );  
10  
11 • create table Phone(  
12     Roll_No_P int not null,  
13     Phone_No varchar(15),  
14     foreign key(Roll_No_P) references Student(Roll_No)  
15 );  
16  
17 • create table Address(  
18     Roll_No_A int not null,  
19     Country varchar(20),  
20     State varchar(20),  
21     City varchar(20),  
22     Street varchar(40),  
23     foreign key(Roll_No_A) references Student(Roll_No)  
24 );  
25
```

### Atividade 2:

```
26 • insert into Student (Roll_No, Name, DOB) values (1, "Mariana", "23/09/2001");  
27 • insert into Phone (Roll_No_P, Phone_No) values (1, "33446754");  
28 • insert into Phone (Roll_No_P, Phone_No) values (1, "9991324534");  
29 • insert into Address (Roll_No_A, Country, State, City, Street) values (1, 'Brasil', 'SC', 'Palhoça', 'R. da Pedra');  
30  
31 • insert into Student (Roll_No, Name, DOB) values (2, "Ana", "13/01/1998");  
32 • insert into Phone (Roll_No_P, Phone_No) values (2, "33245643");  
33 • insert into Phone (Roll_No_P, Phone_No) values (2, "991675489");  
34 • insert into Address (Roll_No_A, Country, State, City, Street) values (2, 'Brasil', 'SC', 'São José', 'R. Governador');  
35  
36 • insert into Student (Roll_No, Name, DOB) values (3, "Hanna", "22/08/1999");  
37 • insert into Phone (Roll_No_P, Phone_No) values (3, "32998765");  
38 • insert into Phone (Roll_No_P, Phone_No) values (3, "991765489");  
39 • insert into Address (Roll_No_A, Country, State, City, Street) values (3, 'Alemanha', 'Bade-Vurtemberg', 'Ulm', 'Lautenberg');  
40  
41 • insert into Student (Roll_No, Name, DOB) values (4, "Marlene", "13/06/1997");  
42 • insert into Phone (Roll_No_P, Phone_No) values (4, "33568514");  
43 • insert into Phone (Roll_No_P, Phone_No) values (4, "991457463");  
44 • insert into Address (Roll_No_A, Country, State, City, Street) values (4, 'Alemanha', 'Bade-Vurtemberg', 'Ulm', 'Neue Str.');
```

```
53 • select Name, Roll_No, Street from Student, Address where Roll_No = Roll_No_A and City = 'Ulm'
```

Result Grid			
Filter Rows: <input type="text"/>			
Export: <input type="text"/>			
Wrap Cell Content: <input type="text"/>			
Name	Roll_No	Street	
Hanna	3	Lautenberg	
Marlene	4	Neue Str.	

Atividade 3

Schema SQL

```
1 CREATE TABLE Artist (  
2   artist_id int NOT NULL,  
3   artist_name varchar(50),  
4   PRIMARY KEY (artist_id)  
5 );  
6  
7 CREATE TABLE Album (  
8   album_id int NOT NULL,  
9   album_name varchar(50),  
10  album_artist_id int,  
11  PRIMARY KEY (album_id),  
12  FOREIGN KEY (album_artist_id) REFERENCES Artist (artist_id)  
13 );  
14  
15 CREATE TABLE Track (  
16   track_id int NOT NULL,  
17   track_name varchar(50),  
18   time int,  
19   track_album_id int,  
20   PRIMARY KEY (track_id),  
21   FOREIGN KEY (track_album_id) REFERENCES Album (album_id)  
22 );  
23  
24 CREATE TABLE Played (  
25   played int NOT NULL,  
26   played_track_id int,  
27   PRIMARY KEY (played),  
28   FOREIGN KEY (played_track_id) REFERENCES Track (track_id)  
29 );  
30  
31 INSERT INTO Artist (artist_id, artist_name) VALUES (1, "Bon Jovi");  
32 INSERT INTO Artist (artist_id, artist_name) VALUES (2, "U2");  
33 INSERT INTO Artist (artist_id, artist_name) VALUES (3, "Pink Floyd");  
34  
35 INSERT INTO Album (album_id, album_name, album_artist_id) VALUES (3, "These Days", 1);  
36 INSERT INTO Album (album_id, album_name, album_artist_id) VALUES (2, "War", 2);  
37 INSERT INTO Album (album_id, album_name, album_artist_id) VALUES (1, "The Wall", 3);  
38  
39 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (1, "These Days", 190, 3);  
40 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (2, "Something for the Pain", 170, 3);  
41 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (3, "Lie to me", 196, 3);  
42 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (4, "The Refugee", 160, 2);  
43 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (5, "The Refugee", 170, 2);  
44 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (6, "Drowning Man", 180, 2);  
45 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (7, "In The Flesh", 198, 1);  
46 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (8, "The Thin Ice", 187, 1);  
47 INSERT INTO Track (track_id, track_name, time, track_album_id) VALUES (9, "The Trial", 176, 1);
```

Atividade 4

Schema SQL

```
1 CREATE TABLE Artist (  
2   artist_id int NOT NULL,  
3   artist_name varchar(50),  
4   PRIMARY KEY (artist_id)  
5 );  
6  
7 CREATE TABLE album (  
8   album_id int NOT NULL,  
9   album_name varchar(50),  
10  album_artist_id int,  
11  PRIMARY KEY (album_id),  
12  FOREIGN KEY (album_artist_id) REFERENCES Artist (artist_id)  
13 );  
14  
15 CREATE TABLE Track (  
16   track_id int NOT NULL,  
17   track_name varchar(50),  
18   time int,  
19   track_album_id int,  
20   PRIMARY KEY (track_id),  
21   FOREIGN KEY (track_album_id) REFERENCES Album (album_id)  
22 );
```

Text to DDL

Query SQL

```
1 SELECT track_name, time FROM Track WHERE time > 180
```

Results

Copy as Markdown

Query #1 Execution time: 0ms

track_name	time
These Days	190
Lie to me	196
In The Flesh	198
The Thin Ice	187