

Local instance mySQL Local

File Edit View Query Database Server Tools Scripting Help

Navigator SCHEMAS Filter objects Columns Id F_name L_name Population Rating Country_Id Country_name DOB Indexes Foreign Keys Administration Schemas Information

D_41_SESSION 1 foreign key time stamp joins built-in functions user defined functions sub queries views ASSIGNMENT 7 x

Limit to 50 rows

```
1 -- Consider the Country table and Persons table that you created earlier and perform the following:
2 -- 1. Add a new column called DOB in Persons table with data type as Date.
3 • alter table persons Add column DOB DATE ;
4 • select * from persons ;
5 -- 2. Write a user-defined function to calculate age using DOB.
6 DELIMITER $$
7
8 • CREATE FUNCTION Age (DOB DATE)
9 RETURNS INT
10 DETERMINISTIC
11 BEGIN
12 DECLARE age INT;
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

	ID	F_name	L_name	Population	Rating	Country_id	Country_name	DOB
▶	1	Ajay	Cr	14000000	4.00	IN	India	1997-01-05
	2	Albert	John	25000000	3.80	GER	Germany	1998-04-02
	3	Jerin	Joseph	14000000	4.80	UK	United Kingdom	1998-06-02
	4	Catherine	johN	20000000	5.00	AUS	Australia	1994-02-06
	5	shangu	shenz	5000000	3.50	CHI	China	1995-01-07
	6	shangan	sheen	15000000	4.50	JPY	Japan	1999-01-07

persons 26 x Apply

Output Action Output

#	Time	Action	Message	Duration / Fetch
✓ 83	22:53:50	SELECT F_name, DOB, Age(DOB) AS Age FROM persons LIMIT 0, 50	12 row(s) returned	0.000 sec / 0.000 sec
✓ 84	22:57:59	select *from persons LIMIT 0, 50	12 row(s) returned	0.094 sec / 0.000 sec

Object Info Session

Column: Id
Definition:
Id int PK

Result Grid Form Editor

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigation: D_41_SESSION 1 foreign key time stamp joins built in functions user defined functions sub queries views ASSIGNMENT 7 x

SCHEMAS

Filter objects

- Columns
 - Id
 - F_name
 - L_name
 - Population
 - Rating
 - Country_Id
 - Country_name
 - DOB
- Indexes
- Foreign Keys

Administration Schemas

Information

```
10 DETERMINISTIC
11 BEGIN
12 DECLARE age INT;
13 SET age = TIMESTAMPDIFF(YEAR, DOB, CURDATE());
14 RETURN age;
15 END $$
16
17 DELIMITER ;
18 SELECT AGE ('1998-04-02') AS AGE_OF_PERSONS ;
19 -- 3. Write a select query to fetch the Age of all persons using the function that has been created.
20 Update persons set DOB='1998-04-02'where Id=2;
21 Update persons set DOB='1997-01-05'where Id=1;
```

Column: Id

Definition: Id INT PK

Result Grid

AGE_OF_PERSONS
26

Result 27 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
84	22:57:59	select * from persons LIMIT 0, 50	12 row(s) returned	0.054 sec / 0.000 sec
85	22:58:28	SELECT AGE ('1998-04-02') AS AGE_OF_PERSONS LIMIT 0, 50	1 row(s) returned	0.032 sec / 0.000 sec

Object Info Session

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

Columns

Id

F_name

L_name

Population

Rating

Country_Id

Country_name

DOB

Indexes

Foreign Keys

Administration

Schemas

Information

D_41_SESSION 1

foreign key

time stamp

joins

built in functions

user defined functions

sub queries

views

ASSIGNMENT 7

Limit to 50 rows

25

Update persons set DOB='1999-01-07'where Id=6;

26

Update persons set DOB='1998-02-07'where Id=7;

27

Update persons set DOB='1998-05-01'where Id=8;

28

Update persons set DOB='1993-09-18'where Id=9;

29

Update persons set DOB='1992-01-04'where Id=10;

30

Update persons set DOB='1992-04-03'where Id=11;

31

Update persons set DOB='1992-07-04'where Id=12;

32

33

SELECT F_name, DOB, Age(DOB) AS Age FROM persons;

34

35

-- 4. Find the length of each country name in the Country table.

36

SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name

Column: Id

Definition:

Id int PK

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	F_name	DOB	Age
▶	Ajay	1997-01-05	27
	Albert	1998-04-02	26
	Jerin	1998-06-02	26
	Catherine	1994-02-06	30
	shangu	1995-01-07	29
	shangan	1999-01-07	25

Result 28 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	85 22:58:28	SELECT AGE (1998-04-02) AS AGE_OF_PERSONS LIMIT 0, 50	1 row(s) returned	0.032 sec / 0.000 sec
✓	86 22:58:41	SELECT F_name, DOB, Age(DOB) AS Age FROM persons LIMIT 0, 50	12 row(s) returned	0.015 sec / 0.000 sec

Read Only

Result Grid

Form Editor

Object Info

Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- Columns
 - Id
 - F_name
 - L_name
 - Population
 - Rating
 - Country_Id
 - Country_name
 - DOB
- Indexes
- Foreign Keys

Administration Schemas

Information

D_41_SESSION 1 foreign key time stamp joins built in functions user defined functions sub queries views ASSIGNMENT 7

Limit to 50 rows

```
27 • Update persons set DOB='1998-05-01' where Id=8;
28 • Update persons set DOB='1993-09-10' where Id=9;
29 • Update persons set DOB='1992-01-04' where Id=10;
30 • Update persons set DOB='1992-04-03' where Id=11;
31 • Update persons set DOB='1992-07-04' where Id=12;
32
33 • SELECT F_name, DOB, Age(DOB) AS Age FROM persons;
34
35 -- 4. Find the length of each country name in the Country table.
36 • SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name
37 FROM country;
38 -- 5. Extract the first three characters of each country's name in the Country table.
```

Result Grid

Country_name	Length_of_country_name
India	5
USA	3
Canada	6
Australia	9
China	5
Japan	5

Result 29

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 86	22:58:41	SELECT F_name, DOB, Age(DOB) AS Age FROM persons LIMIT 0, 50	12 row(s) returned	0.015 sec / 0.000 sec
✓ 87	22:58:53	SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name FROM cou...	10 row(s) returned	0.016 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

Columns

- Id
- F_name
- L_name
- Population
- Rating
- Country_id
- Country_name
- DOB

Indexes

Foreign Keys

Administration Schemas Information

D_41_SESSION 1 foreign key time stamp joins built in functions user defined functions sub queries views ASSIGNMENT 7 x

Limit to 50 rows

```
29 • Update persons set DOB='1992-01-04'where Id=10;
30 • Update persons set DOB='1992-04-03'where Id=11;
31 • Update persons set DOB='1992-07-04'where Id=12;
32
33 • SELECT F_name, DOB, Age(DOB) AS Age FROM persons;
34
35 -- 4. Find the length of each country name in the Country table.
36 • SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name
37 FROM country;
38 -- 5. Extract the first three characters of each country's name in the Country table.
39 • SELECT Country_name, SUBSTRING(Country_name, 1, 3) AS First_three_characters_of_country_name
40 FROM Country;
```

Result Grid

Country_name	First_three_characters_of_country_name
India	Ind
USA	USA
Canada	Can
Australia	Aus
China	Chi
Japan	Jap

Result 30 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
87	22:58:53	SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name FROM cou...	10 row(s) returned	0.016 sec / 0.000 sec
88	22:59:04	SELECT Country_name, SUBSTRING(Country_name, 1, 3) AS First_three_characters_of_c...	10 row(s) returned	0.031 sec / 0.000 sec

Object Info Session

Column: Id

Definition: Id int PK

Result Grid

Form Editor

Read Only

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

50% 50% 50% 50% 50% 50% 50% 50% 50% 50%

Limit to 50 rows

Navigation

SCHEMAS

Filter objects

Columns

Id

F_name

L_name

Population

Rating

Country_Id

Country_name

DOB

Indexes

Foreign Keys

Administration

Schemas

Information

D_41_SESSION 1 foreign key time stamp joins built in functions user defined functions sub queries views ASSIGNMENT 7

33 • SELECT F_name, DOB, Age(DOB) AS Age FROM persons;

34

35 -- 4. Find the length of each country name in the Country table.

36 • SELECT Country_name, LENGTH(Country_name) AS Length_of_country_name

37 FROM country;

38 -- 5. Extract the first three characters of each country's name in the Country table.

39 • SELECT Country_name, SUBSTRING(Country_name, 1, 3) AS First_three_characters_of_country_name

40 FROM Country;

41

42 -- 6. Convert all country names to uppercase and lowercase in the Country table.

43 • SELECT Country_name, UPPER(Country_name) AS Uppercase_country_Name FROM country;

44 • SELECT Country_name, lower(Country_name) AS Lowercase_country_Name FROM country;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Country_name	Lowercase_country_Name
▶	India	india
	USA	usa
	Canada	canada
	Australia	australia
	China	china
	Japan	japan

Result 32

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓	89 22:59:17	SELECT Country_name, UPPER(Country_name) AS Uppercase_country_Name FROM cou...	10 row(s) returned	0.000 sec / 0.000 sec
✓	90 22:59:28	SELECT Country_name, lower(Country_name) AS Lowercase_country_Name FROM countr...	10 row(s) returned	0.016 sec / 0.000 sec

Object Info

Session

Column: Id

Definition: Id int PK