

DBMS (LAB – 8) Creating Functions and Stored Procedures

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Assignment-1:

Write a function to find the number of tickets booked by a customer. If no of tickets is more than 3 for the current month then display error message as “cannot purchase tickets current limit is over”

```
MariaDB [cs634_rrs]> use cs634_rrs;
Database changed
MariaDB [cs634_rrs]>
MariaDB [cs634_rrs]> delimiter $$
MariaDB [cs634_rrs]> create function no_of_tickets(uid varchar(20))
  -> returns varchar(50)
  -> begin
  -> declare print varchar(50);
  -> declare count int;
  -> select count(pnr) into count from ticket where passenger_id = uid;
  -> if count > 3 then
  -> set print = "cannot purchase tickets current limit is over";
  -> else
  -> set print = "tickets purchased successfully";
  -> end if;
  -> return print;
  -> end$$
ERROR 1304 (42000): FUNCTION no_of_tickets already exists
MariaDB [cs634_rrs]>
MariaDB [cs634_rrs]> delimiter ;
MariaDB [cs634_rrs]> select user_id, no_of_tickets(user_id) from train_user;
```

user_id	no_of_tickets(user_id)		
ADM_001	tickets	purchased	successfully
ADM_002	tickets	purchased	successfully
ADM_003	tickets	purchased	successfully
USR_001	tickets	purchased	successfully
USR_002	tickets	purchased	successfully
USR_003	tickets	purchased	successfully
USR_004	tickets	purchased	successfully
USR_005	tickets	purchased	successfully
USR_006	tickets	purchased	successfully
USR_007	tickets	purchased	successfully
USR_008	tickets	purchased	successfully
USR_009	tickets	purchased	successfully
USR_010	tickets	purchased	successfully
USR_011	tickets	purchased	successfully
USR_012	tickets	purchased	successfully
USR_013	tickets	purchased	successfully
USR_014	tickets	purchased	successfully
USR_015	tickets	purchased	successfully
USR_016	tickets	purchased	successfully
USR_017	tickets	purchased	successfully
USR_018	tickets	purchased	successfully
USR_019	tickets	purchased	successfully
USR_020	tickets	purchased	successfully
USR_021	tickets	purchased	successfully
USR_022	tickets	purchased	successfully
USR_023	tickets	purchased	successfully
USR_024	tickets	purchased	successfully
USR_025	tickets	purchased	successfully
USR_026	tickets	purchased	successfully
USR_027	tickets	purchased	successfully
USR_028	tickets	purchased	successfully
USR_029	tickets	purchased	successfully
USR_030	tickets	purchased	successfully

33 rows in set (0.003 sec)

MariaDB [cs634_rrs]> █

Assignment-2:

Write a stored procedure to calculate the age of the customer when the date of birth is given, Update the column named age in the customer table.

```
MariaDB [cs634_rrs]>
MariaDB [cs634_rrs]> delimiter ;
MariaDB [cs634_rrs]> call calculate_age();
Query OK, 1 row affected (0.008 sec)

MariaDB [cs634_rrs]>
MariaDB [cs634_rrs]> select * from train_user;
```

user_id	user_type	firstname	lastname	age	dob	pincode	street_number
ADM_001	ADMIN	Narendra	Modi	33	1989-04-14	600047	Old Jail Road
ADM_002	ADMIN	Droupadi	Murmu	32	1990-04-14	640012	High Street
ADM_003	ADMIN	Manmohan	Singh	31	1991-04-08	575003	Pumpwell Road
USR_001	PSGR	Ajit	Ullal	51	1971-01-01	560001	10, Janpath
USR_002	PSGR	Muhammed	Ali	22	2000-10-09	560003	10, Downing
USR_003	PSGR	Sai Deepak	Reddy	25	1996-12-12	600001	14, Kailsh Marg
USR_004	PSGR	Rudra	Agarwal	25	1996-12-13	600042	5, Lohia Garden
USR_005	PSGR	Rahul	Khanna	24	1997-12-14	600067	1, Pink Street
USR_006	PSGR	Nirmala	Seturaman	23	1998-12-15	560105	3, Blue Avenue
USR_007	PSGR	Smriti	Irani	22	1999-12-16	575014	4, Banyan Avenie
USR_008	PSGR	Ajit	Sethi	56	1966-04-14	575001	6, Poes Garden
USR_009	PSGR	Arjun	Allu	55	1967-04-08	575020	7, Dhamaka street
USR_010	PSGR	Samanta	Prabhu	54	1968-04-14	600042	8, Clone Colony
USR_011	PSGR	Kiran	Bedi	53	1969-04-14	560003	56, Brigade Road
USR_012	PSGR	Rahul	Gandhi	52	1970-04-08	475001	Mirza road
USR_013	PSGR	Rashkit	Shetty	51	1971-04-14	560009	JC Road
USR_014	PSGR	Rishi	Sunak	50	1972-04-14	600034	Anna Sali
USR_015	PSGR	Vedavalli	Srinath	49	1973-04-14	560054	Church Street, Bangalore
USR_016	PSGR	Subbu	Saravana	48	1974-04-14	600043	American Street
USR_017	PSGR	Sheela	Dixit	47	1975-04-08	560048	Kasturba Road
USR_018	PSGR	Margaret	Alva	46	1976-04-14	560008	New BEL Road
USR_019	PSGR	Arun	Kumar	45	1977-04-14	600046	Mint Street
USR_020	PSGR	Anshu	Bhardwaj	44	1978-04-14	575001	KSR Road
USR_021	PSGR	Suma	Sampat	43	1979-04-08	560012	Old Airport Road, Bangalore
USR_022	PSGR	Srihari	Udupa	42	1980-04-14	560015	Suranjan Das Road
USR_023	PSGR	Satish	Kotian	41	1981-04-14	600044	T Nagar
USR_024	PSGR	Shradha	Nayar	40	1982-04-08	560006	M G Road, Bangalore
USR_025	PSGR	Manisha	Solanki	39	1983-04-08	575030	M G Road
USR_026	PSGR	Bharti	Devgan	38	1984-04-14	560059	NAL Wind Tunnel Road
USR_027	PSGR	Roopa	Ram	37	1985-04-14	575023	Bunder Road
USR_028	PSGR	Pallavi	Ram	36	1986-04-08	560044	Lavelle Road
USR_029	PSGR	Ravi	Naik	35	1987-04-14	600045	Thiru V ka Salai
USR_030	PSGR	Virat	Murthy	34	1988-04-14	575011	Bejai New Road

```
33 rows in set (0.001 sec)

MariaDB [cs634_rrs]>
```