

**DATABASE**  
**MANAGEMENT**  
**SYSTEM**  
**LAB-8**  
**FUNCTIONS AND**  
**STORED PROCEDURES**

NAME: VISHWAS M

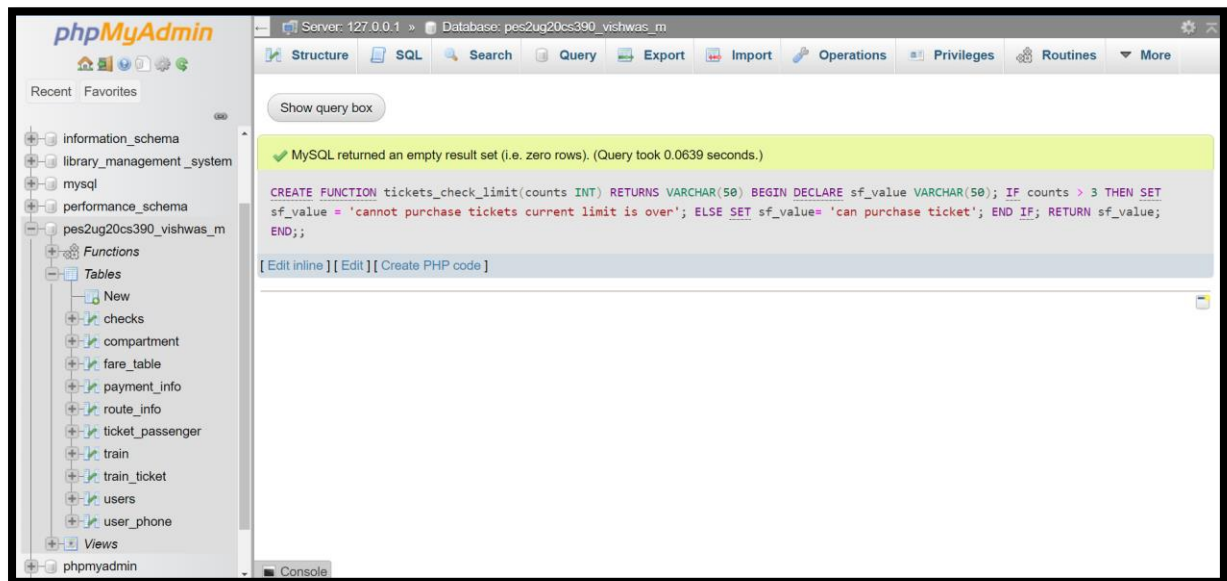
SRN : PES2UG20CS390

SEC : F

DATE : 20/10/2022

# 1)FUNCTIONS:

## Query and output for creating the function:

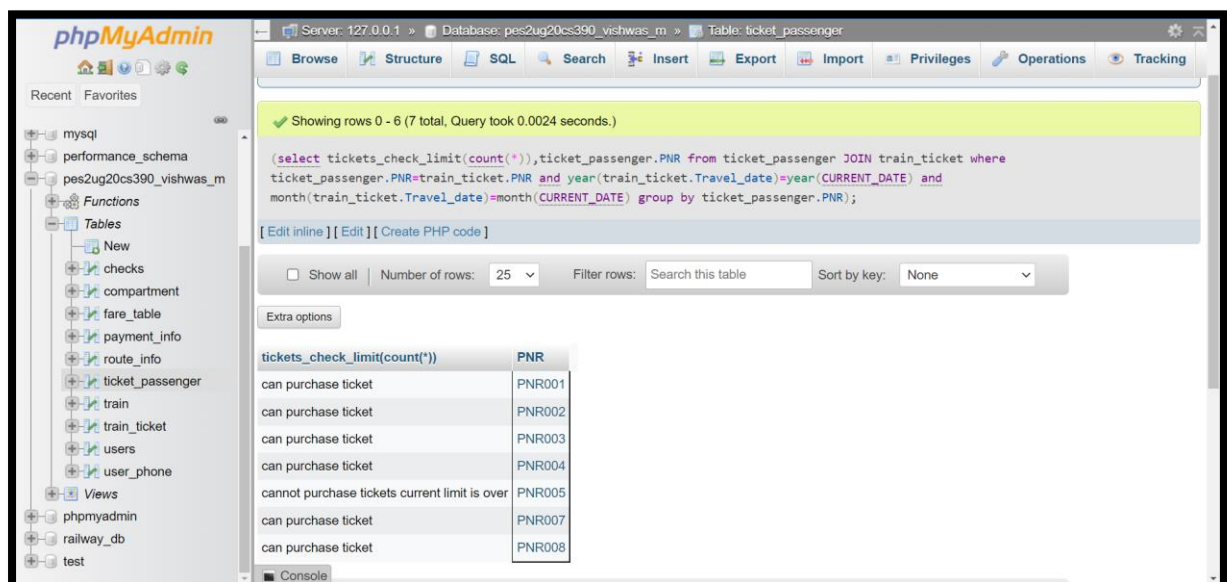


The screenshot shows the phpMyAdmin interface with the 'Database: pes2ug20cs390\_vishwas\_m' selected. The 'Functions' tab is active, and a new function is being created. The SQL query in the editor is:

```
CREATE FUNCTION tickets_check_limit(counts INT) RETURNS VARCHAR(50) BEGIN DECLARE sf_value VARCHAR(50); IF counts > 3 THEN SET sf_value = 'cannot purchase tickets current limit is over'; ELSE SET sf_value= 'can purchase ticket'; END IF; RETURN sf_value; END;;
```

The output shows: 'MySQL returned an empty result set (i.e. zero rows). (Query took 0.0639 seconds.)'

## Output after calling the function:



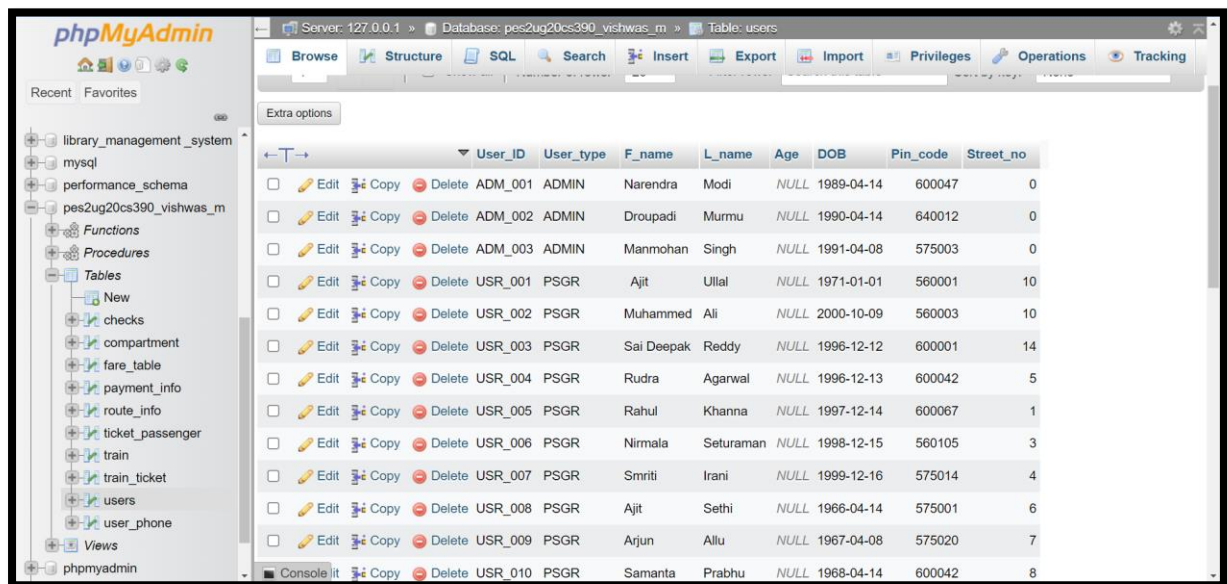
The screenshot shows the phpMyAdmin interface with the 'Table: ticket\_passenger' selected. The 'SQL' tab is active, and a query is executed. The output shows 7 rows (rows 0-6) with the results of the function call.

Query: `(select tickets_check_limit(count(*)),ticket_passenger.PNR from ticket_passenger JOIN train_ticket where ticket_passenger.PNR=train_ticket.PNR and year(train_ticket.Travel_date)=year(CURRENT_DATE) and month(train_ticket.Travel_date)=month(CURRENT_DATE) group by ticket_passenger.PNR);`

tickets_check_limit(count(*))	PNR
can purchase ticket	PNR001
can purchase ticket	PNR002
can purchase ticket	PNR003
can purchase ticket	PNR004
cannot purchase tickets current limit is over	PNR005
can purchase ticket	PNR007
can purchase ticket	PNR008

## 2)PROCEDURES:

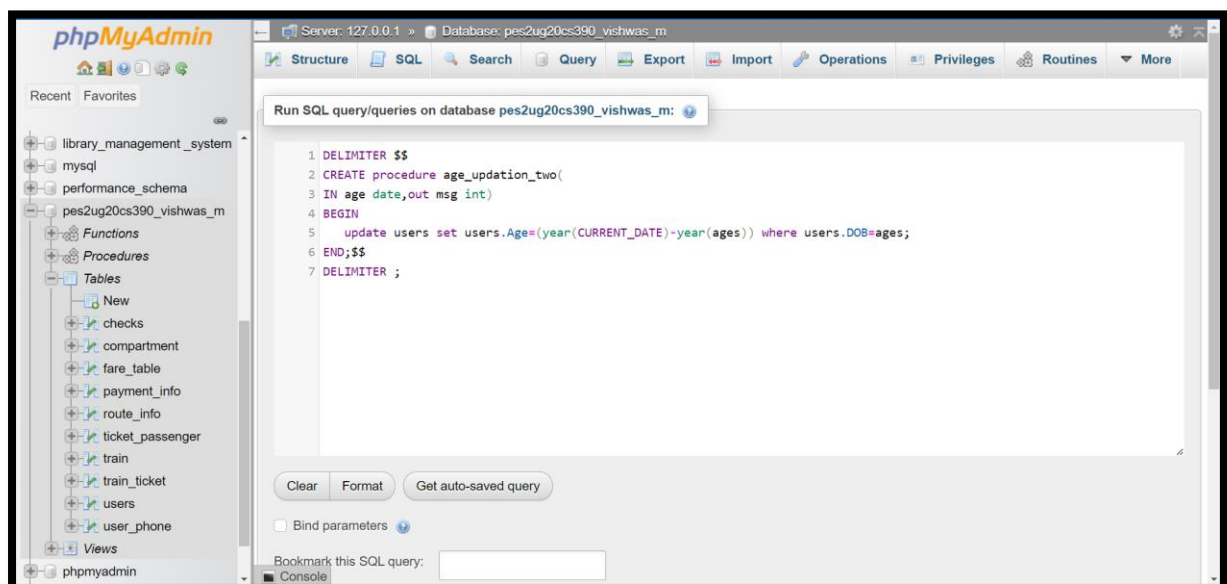
Before updating:



The screenshot shows the phpMyAdmin interface with the 'users' table selected. The table has the following columns: User\_ID, User\_type, F\_name, L\_name, Age, DOB, Pin\_code, and Street\_no. The data is as follows:

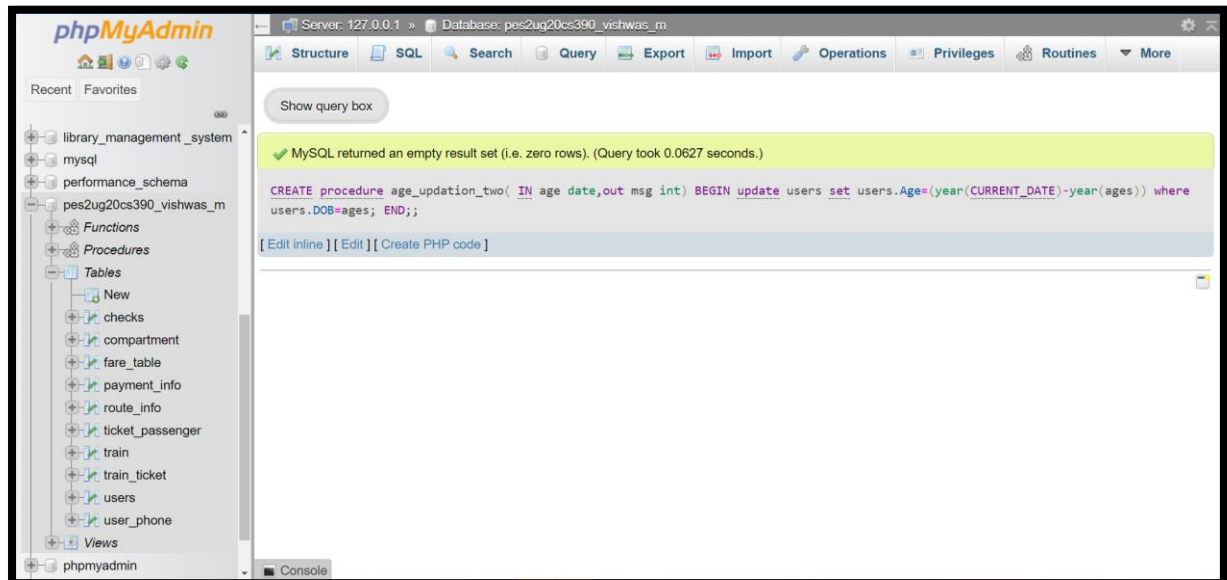
User_ID	User_type	F_name	L_name	Age	DOB	Pin_code	Street_no
ADM_001	ADMIN	Narendra	Modi	NULL	1989-04-14	600047	0
ADM_002	ADMIN	Droupadi	Murmu	NULL	1990-04-14	640012	0
ADM_003	ADMIN	Manmohan	Singh	NULL	1991-04-08	575003	0
USR_001	PSGR	Ajit	Ullal	NULL	1971-01-01	560001	10
USR_002	PSGR	Muhammed	Ali	NULL	2000-10-09	560003	10
USR_003	PSGR	Sai Deepak	Reddy	NULL	1996-12-12	600001	14
USR_004	PSGR	Rudra	Agarwal	NULL	1996-12-13	600042	5
USR_005	PSGR	Rahul	Khanna	NULL	1997-12-14	600067	1
USR_006	PSGR	Nirmala	Seturaman	NULL	1998-12-15	560105	3
USR_007	PSGR	Smriti	Irani	NULL	1999-12-16	575014	4
USR_008	PSGR	Ajit	Sethi	NULL	1966-04-14	575001	6
USR_009	PSGR	Arjun	Allu	NULL	1967-04-08	575020	7
USR_010	PSGR	Samanta	Prabhu	NULL	1968-04-14	600042	8

Query for 1<sup>st</sup> procedure:

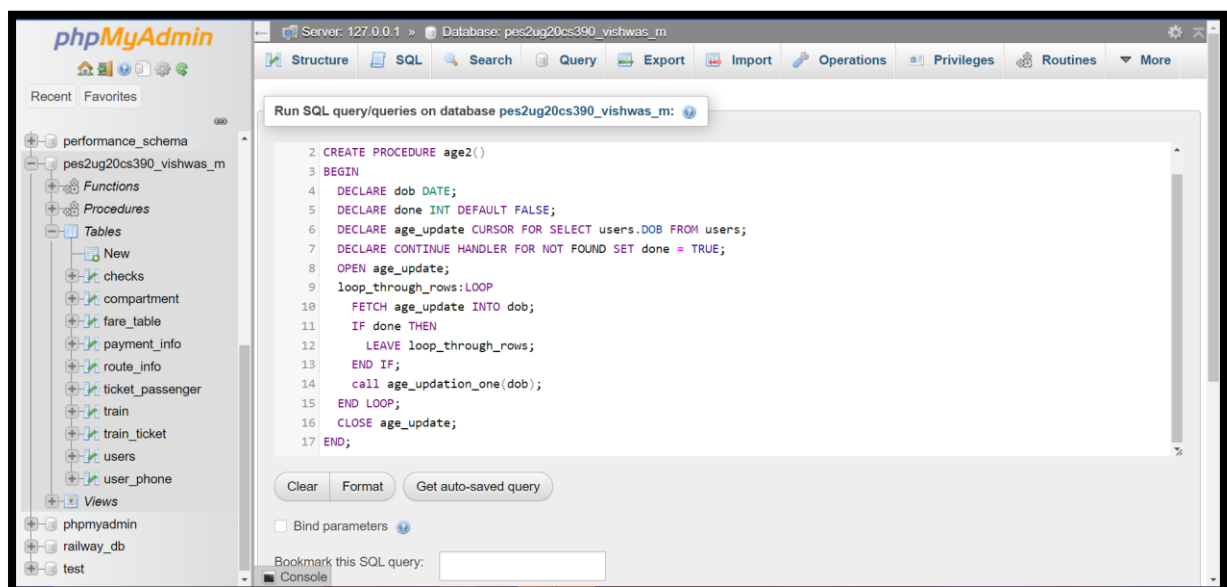


```
1 DELIMITER $$
2 CREATE procedure age_updation_two(
3   IN age date,out msg int)
4 BEGIN
5   update users set users.Age=(year(CURRENT_DATE)-year(ages)) where users.DOB=ages;
6 END;$$
7 DELIMITER ;
```

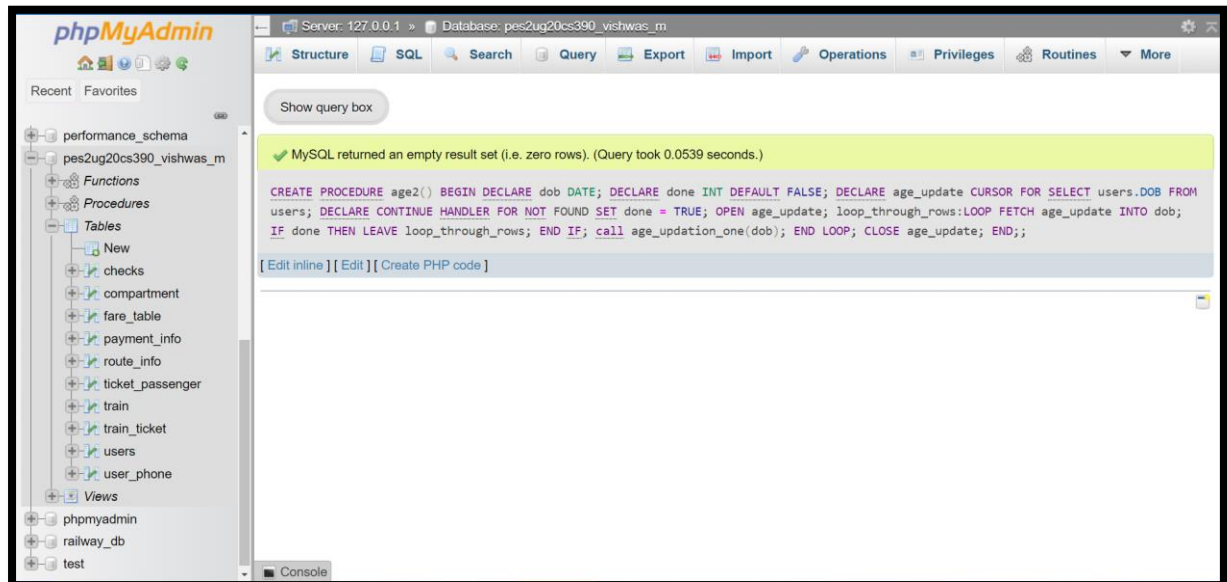
Output :



Query for 2<sup>nd</sup> procedure:

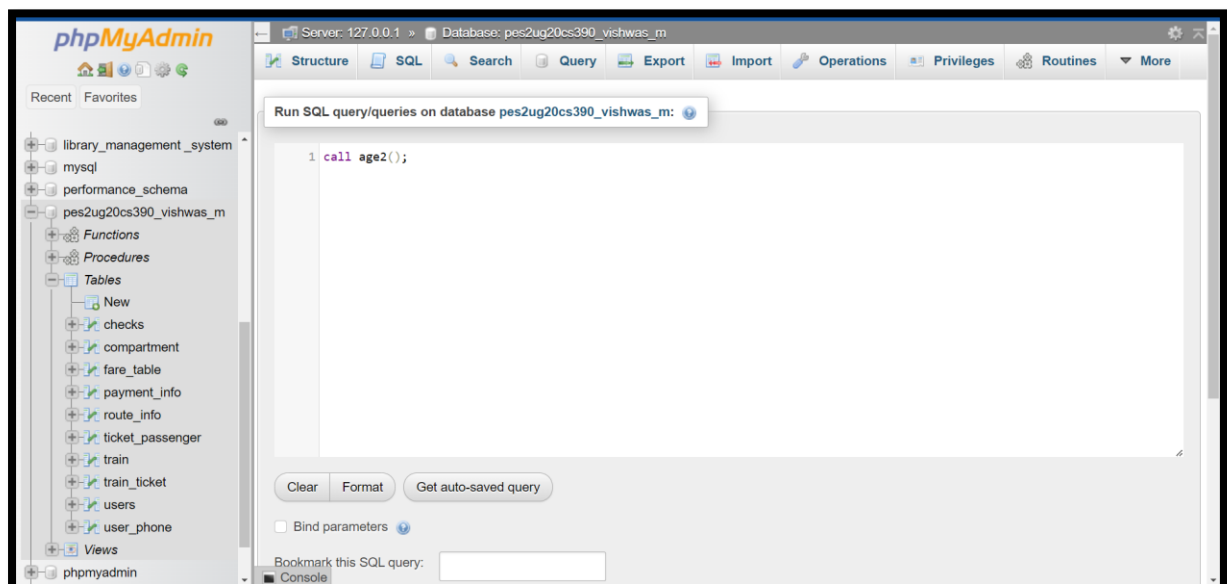


Output for 2<sup>nd</sup> procedure:

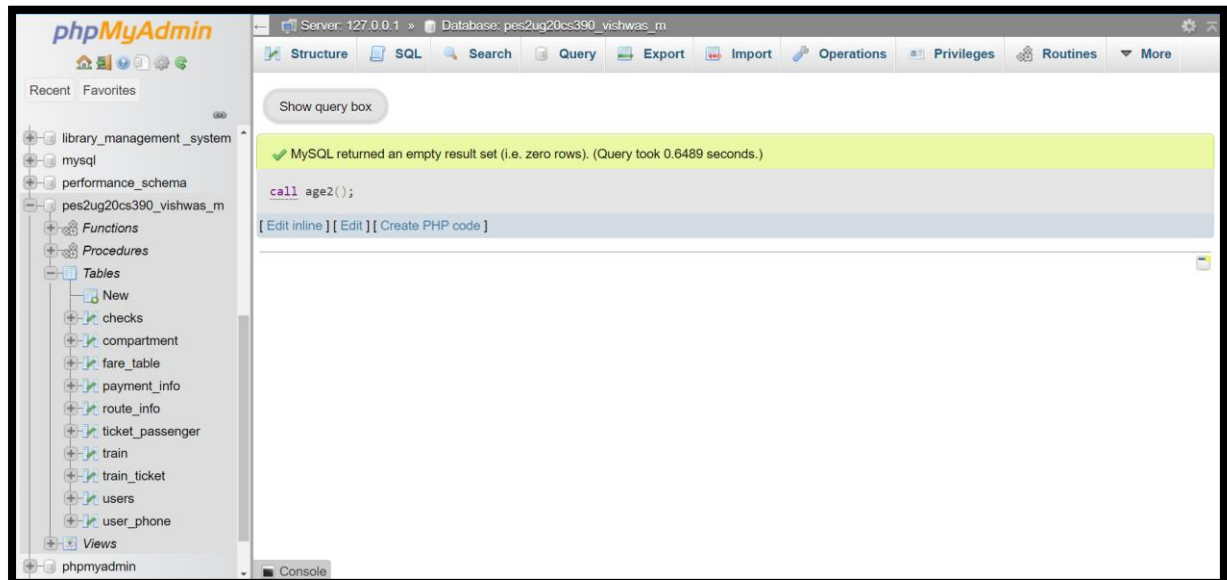


Calling the 2<sup>nd</sup> procedure:

Query:



Output:



The updated table:

The screenshot shows the phpMyAdmin interface with the 'users' table selected. The table structure is displayed in the main panel, showing columns: User\_ID, User\_type, F\_name, L\_name, Age, DOB, Pin\_code, and Street\_no. The table contains 10 rows of data, including administrators and passengers.

	User_ID	User_type	F_name	L_name	Age	DOB	Pin_code	Street_no
<input type="checkbox"/>	ADM_001	ADMIN	Narendra	Modi	33	1989-04-14	600047	0
<input type="checkbox"/>	ADM_002	ADMIN	Droupadi	Murmu	32	1990-04-14	640012	0
<input type="checkbox"/>	ADM_003	ADMIN	Manmohan	Singh	31	1991-04-08	575003	0
<input type="checkbox"/>	USR_001	PSGR	Ajit	Ullal	51	1971-01-01	560001	10
<input type="checkbox"/>	USR_002	PSGR	Muhammed	Ali	22	2000-10-09	560003	10
<input type="checkbox"/>	USR_003	PSGR	Sai Deepak	Reddy	26	1996-12-12	600001	14
<input type="checkbox"/>	USR_004	PSGR	Rudra	Agarwal	26	1996-12-13	600042	5
<input type="checkbox"/>	USR_005	PSGR	Rahul	Khanna	25	1997-12-14	600067	1
<input type="checkbox"/>	USR_006	PSGR	Nirmala	Seturaman	24	1998-12-15	560105	3
<input type="checkbox"/>	USR_007	PSGR	Smriti	Irani	23	1999-12-16	575014	4
<input type="checkbox"/>	USR_008	PSGR	Ajit	Sethi	56	1966-04-14	575001	6
<input type="checkbox"/>	USR_009	PSGR	Arjun	Allu	55	1967-04-08	575020	7
<input type="checkbox"/>	USR_010	PSGR	Samanta	Prabhu	54	1968-04-14	600042	8