DBMS Assignment Lab 5

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1.a)

mysql> CREATE VIEW compute_price AS SELECT Ticket.PNR, Ticket.Train_No, Ticket.Departure, Ticket.Arrival, Route_Info.Distance, Fare.fare_per_km FROM Ticket, Route_Info, Fare WHERE (Ticket.Train_No = Route_Info.Train_No AND Ticket.Departure = Route_Info.From_Station_Name AND Ticket.Arrival = Route_Info.To_Station_Name AND Fare.Train_Type=Ticket.Train_Type AND Fare.Compartment_Type =Ticket.Compartment_type);
Query OK, 0 rows affected (0.01 sec)

```
mysql> SELECT * FROM compute_price limit 4;
         | Train_No | Departure | Arrival
                                            Distance | fare per km
 PNR001
             62621
                     Bengaluru
                                                   362
                                  Chennai
                                                   361
 PNR002
             62620
                     Chennai
                                  Bengaluru
                                                                    1
 PNR003
              25261
                     Chennai
                                  Mangaluru
                                                   481
 PNR004
             25260 | Mangaluru | Chennai
                                                   481
 rows in set (0.00 sec)
```

1.b)

mysql> CREATE VIEW passenger_num AS select PNR, count(PNR) as numbers from Ticket_Passenger group by PNR ; Query OK, 0 rows affected (0.01 sec)

1.c)

```
mysql> UPDATE Payment_Info AS p INNER JOIN compute_price AS cs ON p.PNR = cs.PNR INNER JOIN passenger_nu
m AS pn ON cs.PNR = pn.PNR SET p.Price = cs.Distance * cs.Fare_Per_KM * pn.numbers;
Query OK, 11 rows affected (0.03 sec)
Rows matched: 11 Changed: 11 Warnings: 0
mysql> SELECT * FROM payment_info limit 5;
 transaction_no | bank
                               card no
                                            price
                                1.23433E+15
         146445
                  HDFC
                                              2016.00
                                                        PNR006
         243535
                  UNION BANK
                                2.43647E+15
                                               776.00
                                                        PNR012
         342344
                                5.62357E+15
                  TOB
                                              2172.00
                                                        PNR001
         354364
                  CANARA BANK
                                5.76879E+15
                                                 NULL
                                                        PNR014
         531343
                  SBI
                                8.95327E+15
                                               962.00
                                                        PNR004
5 rows in set (0.00 sec)
```

2)

```
mysql> SELECT train_no,from_station_name,to_station_name,distance from route_info where to_station_no-fr
om_station_no=1 order by train_no;
 train_no | from_station_name | to_station_name | distance |
    25260
                                 Kannur
            Mangaluru
    25260
             Kannur
                                 Palakkad
                                                         220
    25261
             Chennai
                                 Palakkad
                                                         130
            Palakkad
    25261
                                 Kannur
                                                         220
    25261
             Kannur
                                 Mangaluru
            Mangaluru
    58450
                                                         195
                                 Subramanya
    58450
             Subramanya
                                 Mysore
                                                         170
    58450
                                 Bengaluru
            Mysore
                                                         139
    58451
            Bengaluru
                                 Mysore
    58451
            Mysore
                                 Subramanya
                                                         170
             Subramanya
    58451
                                                         194
                                 Mangaluru
    62620
             Chennai
                                 Sholingur
                                                          90
    62620
             Sholingur
                                 Katpadi
                                                          39
    62620
             Katpadi
                                                         161
                                 Bangarpet
    62620
             Bangarpet
                                 Bengaluru
            Bengaluru
    62621
                                 Bangarpet
    62621
             Bangarpet
                                 Katpadi
    62621
             Katpadi
                                 Sholigur
                                                          40
                                                          90
    62621 | Sholingur
                                 Chennai
```

3)

19 rows in set (0.00 sec)

rstname	lastname	dob	pnr
Narendra	Modi	1989-04-14	 PNR001
Narendra	Modi	1989-04-14	PNR002
Droupadi	Murmu	1990-04-14	PNR007
Droupadi	Murmu	1990-04-14	PNR008
Manmohan	Singh	1991-04-08	PNR003
Manmohan	Singh	1991-04-08	PNR004
Ajit	Ullal	1971-01-01	NULL
Muhammed	Ali	2000-10-09	PNR005
Muhammed	Ali	2000-10-09	PNR006
Sai Deepak	Reddy	1996-12-12	NULL
Rudra	Agarwal	1996-12-13	NULL
Rahul	Khanna	1997-12-14	NULL
Nirmala	Seturaman	1998-12-15	NULL
Smriti	Irani	1999-12-16	PNR010
Ajit	Sethi	1966-04-14	PNR011
Arjun	Allu	1967-04-08	PNR012
Samanta	Prabhu	1968-04-14	PNR014
Kiran	Bedi	1969-04-14	NULL
Rahul	Gandhi	1970-04-08	PNRØ15
Rashkit	Shetty	1971-04-14	NULL
Rishi	Sunak	1972-04-14	NULL
Vedavalli	Srinath	1973-04-14	NULL
Subbu	Saravana	1974-04-14	NULL
Sheela	Dixit	1975-04-08	NULL
Margaret	Alva	1976-04-14	NULL
Arun	Kumar	1977-04-14	NULL
Anshu	Bhardwaj	1978-04-14	NULL
Suma	Sampat	1979-04-08	NULL
Srihari	Udupa	1980-04-14	NULL
Satish	Kotian	1981-04-14	NULL
Shradha	Nayar	1982-04-08	NULL
Manisha	Solanki	1983-04-08	NULL
Bharti	Devgan	1984-04-14	NULL
Roopa	Ram	1985-04-14	NULL
Pallavi	Ram	1986-04-08	NULL
Ravi	Naik	1987-04-14	NULL
Virat	Murthy	1988-04-14	NULL

mysql> select firstname, lastname, dob from train_user left join ticket on user_id = passenger_id where user_id not in (select passenger_id from ticket); firstname | lastname | dob Ullal 1971-01-01 Sai Deepak Reddy 1996-12-12 Rudra 1996-12-13 Agarwal 1997-12-14 Rahul Khanna Nirmala Seturaman 1998-12-15 1969-04-14 Bedi Kiran Rashkit 1971-04-14 Shetty Rishi 1972-04-14 Sunak Vedavalli Srinath 1973-04-14 Subbu Saravana 1974-04-14 Sheela Dixit 1975-04-08 Margaret Alva 1976-04-14 1977-04-14 Kumar Arun Bhardwaj 1978-04-14 Anshu Suma Sampat 1979-04-08 Srihari 1980-04-14 Udupa Satish Kotian 1981-04-14 1982-04-08 Shradha Nayar Solanki Manisha 1983-04-08

1984-04-14

1985-04-14

1986-04-08

1987-04-14

1988-04-14

Bharti

Roopa Pallavi

Ravi

Virat

Devgan

Ram

Ram

24 rows in set (0.01 sec)

Naik

Murthy

mysql> select pnr,	train_no,	travel_date,	firstname,	lastname	from	ticket	right	join	train	user	on	user_
id = passenger id:												

pnr	train_no	travel_date	firstname	lastname	
PNR001	62621	2022-08-07	Narendra	Modi	
PNR002	62620	2022-08-14	Narendra	Modi	
PNR007	62621	2022-08-07	Droupadi	Murmu	
PNR008	62620	2022-08-02	Droupadi	Murmu	
PNR003	25261	2022-08-01	Manmohan	Singh	
PNR004	25260	2022-08-15	Manmohan	Singh	
NULL	NULL	NULL	Ajit	Ullal	
PNR005	58451	2022-08-03	Muhammed	Ali	
PNR006	58450	2033-08-04	Muhammed	Ali	
NULL	NULL	NULL	Sai Deepak	Reddy	
NULL	NULL	NULL	Rudra	Agarwal	
NULL	NULL	NULL	Rahul	Khanna	
NULL	NULL	NULL	Nirmala	Seturaman	
PNR010	25260	2022-08-19	Smriti	Irani	
PNR011	62621	2022-08-22	Ajit	Sethi	
PNR012	58451	2022-08-11	Arjun	Allu	
PNR014	25260	2022-08-17	Samanta	Prabhu	
NULL	NULL	NULL	Kiran	Bedi	
PNR015	25260	2022-08-05	Rahul	Gandhi	
NULL	NULL	NULL	Rashkit	Shetty	
NULL	NULL	NULL	Rishi	Sunak	
NULL	NULL	NULL	Vedavalli	Srinath	
NULL	NULL	NULL	Subbu	Saravana	
NULL	NULL	NULL	Sheela	Dixit	
NULL	NULL	NULL	Margaret	Alva	
NULL	NULL	NULL	Arun	Kumar	
NULL	NULL	NULL	Anshu	Bhardwaj	
NULL	NULL	NULL	Suma	Sampat	
NULL	NULL	NULL	Srihari	Udupa	
NULL	NULL	NULL	Satish	Kotian	
NULL	NULL	NULL	Shradha	Nayar	
NULL	NULL	NULL	Manisha	Solanki	
NULL	NULL	NULL	Bharti	Devgan	
NULL	NULL	NULL	Roopa	Ram	
NULL	NULL	NULL	Pallavi	Ram	
NULL	NULL	NULL	Ravi	Naik	
NULL	NULL	NULL	Virat	Murthy	
+ 37 rows in	set (0.00	sec)	·	+	

8)

mysql> select passenger_id,ticket.train_no,train_name from ticket RIGHT OUTER JOIN train on ticket.train _no=train.train_no;

passenger_id	train_no	train_name
ADM_003 USR_007 USR_010 USR_012 ADM_003 USR_002 USR_009 ADM_001 ADM_002 ADM_001 ADM_001 ADM_001 ADM_002 ADM_001 ADM_00	25260 25260 25260 25260 25261 58450 58451 58451 62620 62620 62620	Chennai Mail Chennai Mail Chennai Mail Chennai Mail Managaluru Mail MAN-BEN Express BEN-MAN Express BEN-MAN Express CHE-BEN Shatabdi CHE-BEN Shatabdi BEN-CHE Shatabdi
ADM_001 ADM_002 USR_008	62621 62621	BEN-CHE Shatabdi BEN-CHE Shatabdi BEN-CHE Shatabdi

Tarun M (tarunsetty2002@gmail.com) is

13 rows in set (0.02 sec)

10)