

## SQL – Assignment

1. We have a table which has 5 columns.

a. User\_id, poll\_id, poll\_option\_id, amount, created\_dt

b. Users invest money on these different poll options - these entries are there in the table

c. One of the options is the outcome of the event.

Event: How many matches will the Indian cricket team win in 2022?

i. Less than 50

ii. 50-60

iii. 61-65

iv. Greater than 65

- India wins 63 matches in the end.
- Option C is the winner
- Money invested in option A, B and D should be proportionately distributed amongst users who invested money in option C
- For example - If total money invested in option A, B and D is Rs. 1500 and there are 3 users who invested 500 in option C {250, 200 and 50}
- These users would receive (750, 600 and 150 respectively) - sum is 1500.

d. Write down a query for the above settlement process

### Input Table:

User_ID	Poll_Id	Poll_Option_Id	Amount	Created_dt
id1	p1	A	200	2021-12-01
id2	p1	C	250	2021-12-01
id3	p1	A	200	2021-12-01
id4	p1	B	500	2021-12-01
id5	p1	C	50	2021-12-01

id6	p1	D	500	2021-12-01
id7	p1	C	200	2021-12-01
id8	p1	A	100	2021-12-01

### Output Table: Option C wins

User ID	Returns
id2	1000
id5	200
id7	800

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### Answer(1):-

```

create database project;
use project;
create table poll (
  User_ID varchar(5),
  Poll_id varchar(5),
  Poll_Option_id varchar (5),
  Amount decimal(10,2),
  Created_dt date);
insert into poll
values('id1','p1','A',200,'2021-12-01'),
('id2','p1','C',250,'2021-12-01'),
('id3','p1','A',200,'2021-12-01'),
('id4','p1','B',500,'2021-12-01'),
('id5','p1','C',50,'2021-12-01'),
('id6','p1','D',500,'2021-12-01'),

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('id7','p1','C',200,'2021-12-01'),

('id8','p1','A',100,'2021-12-01')

;

SELECT \* FROM POLL;

with Investedmoney as (

select Poll\_Option\_id,sum(Amount) as Total\_amount

from POLL group by Poll\_Option\_id

),

TotalLosingMoney as (

select sum(Total\_amount) as Total\_Losing\_Money

from Investedmoney

where Poll\_Option\_id in ('A','B','D')

),

WinningInvestment as (

select User\_ID,Amount from POLL

where Poll\_Option\_id='C'

),

TotalWinningAmount as (

select sum(Amount) as Total\_Winning\_Amount

from WinningInvestment

),

Distribution as (

select

wi.User\_ID,

wi.Amount,

(wi.Amount/twa.Total\_Winning\_Amount)\*tlm.Total\_Losing\_Money as Distributed\_Amount

from WinningInvestment wi

cross join TotalWinningAmount twa

cross join TotalLosingMoney tlm

)

Select User\_ID,

Amount+Distributed\_Amount as Final\_Amount from Distribution;