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| **//Task1**  Create table ShopHistory  (ProductId int not null, Product varchar not null, Quantity int not null, UnitPrice int not null);  insert into ShopHistory values(1,'Milk',200,35),(2,'Bread',100,25),(3,'Bread',30,20)  insert into ShopHistory values(4,'Jam',50,10),(5,'cooldrink',100,15)  Select \* from SHOPHISTORY  **Q)To find Product total Price**  SELECT product, SUM(quantity \*unitprice) as total from shophistory GROUP BY product |  |

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| **//TASK2.1**  create table phones(name varchar(20),phone\_number int);  insert into phones values('Jack',1234),('Lena',3333),('Mark',9999),('Anna',7582);  create table calls(id integer, caller int, callee int, duration int);  insert into calls values(25,'1234','7582',8),(7,'9999','7582',1),(18,'9999','3333',4),(2,'7582','3333',3),(3,'3333','1234',1),(21,'3333','1234',1);  **Q)Duration atleast 10 minutes**  with call\_duration as  (select caller as phone\_number, sum(duration) as duration from calls group by caller  union all  select callee as phone\_number, sum(duration) as duration from calls group by callee)  select name from phones p inner join call\_duration c on p.phone\_number=c.phone\_number group by name having sum(duration)>=10 order by name asc |  |

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| **//TASK2.2**  //creating new table phones1  create table phones1(name varchar(20), phone\_number int);  insert into phones1 values('John',6356),('Addison',4315),('Kate',8003),('Ginny',9831);  //creating new table calls1  create table calls1(id int, caller int, callee int, duration int);  insert into calls1 values(65,'8003','9831',7),(100,'9831','8003',3),(145,'4315','9831',18);  //duration atleast 10 minutes  with call\_duration1 as  (select caller as phone\_number, sum(duration) as duration from calls1 group by caller  union all  select callee as phone\_number, sum(duration) as duration from calls1 group by callee)  select name from phones1 p inner join call\_duration1 c on p.phone\_number=c.phone\_number  group by name  having sum(duration)>=10  order by name asc |  |

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| [**\\Task3**](file:///\\Task3)  USE DATABASE vinod  CREATE TABLE transactions(Amount INT NOT NULL, date DATE NOT NULL);  INSERT INTO transactions(Amount,Date) VALUES (1000,'2020-01-06');  INSERT INTO transactions(Amount,Date) VALUES (-10,'2020-01-14');  INSERT INTO transactions(Amount,Date) VALUES (-75,'2020-01-20');  INSERT INTO transactions(Amount,Date) VALUES (-5,'2020-01-25');  INSERT INTO transactions(Amount,Date) VALUES (-4,'2020-01-29');  INSERT INTO transactions(Amount,Date) VALUES (2000,'2020-03-10');  INSERT INTO transactions(Amount,Date) VALUES (-75,'2020-03-12');  INSERT INTO transactions(Amount,Date) VALUES (-20,'2020-03-15');  INSERT INTO transactions(Amount,Date) VALUES (40,'2020-03-15');  INSERT INTO transactions(Amount,Date) VALUES (-50,'2020-03-17');  INSERT INTO transactions(Amount,Date) VALUES (200,'2020-10-10');  INSERT INTO transactions(Amount,Date) VALUES (-200,'2020-10-10');  select \* from transactions  Q)  SELECT (SUM(a.total) – (12 – COUNT(b.cnt))\*5 as result  FROM  (SELECT (SUM(amount))as total, ‘A’ as name FROM transactions)as a LEFT JOIN  (SELECT (COUNT(amount)as cnt ,’A’ as name FROM transactions WHERE amount <0  GROUP BY MONTH(date) HAVING NOT(COUNT(amount)<3 OR SUM(amount)>-100)as b on a.name=b.name |  |

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| USE DATABASE VINOD  CREATE TABLE transaction1(amount INT NOT NULL,date NOT NULL);  INSERT INTO transaction1(amount,date) VALUES(1,'2020-06-29');  INSERT INTO transaction1(amount,date) VALUES(35,'2020-02-20');  INSERT INTO transaction1(amount,date) VALUES(-50,'2020-02-03');  INSERT INTO transaction1(amount,date) VALUES(-1,'2020-02-26');  INSERT INTO transaction1(amount,date) VALUES(-200,'2020-08-01');  INSERT INTO transaction1(amount,date) VALUES(-44,'2020-02-07');  INSERT INTO transaction1(amount,date) VALUES(-5,'2020-02-25');  INSERT INTO transaction1(amount,date) VALUES(1,'2020-06-29');  INSERT INTO transaction1(amount,date) VALUES(1,'2020-06-29');  INSERT INTO transaction1(amount,date) VALUES(-100,'2020-12-29');  INSERT INTO transaction1(amount,date) VALUES(-100,'2020-12-30');  INSERT INTO transaction1(amount,date) VALUES(-100,'2020-12-31');  SELECT \* FROM transaction1  SELECT (SUM(a.total1) - (12-COUNT(b.cnt1))\*5) as result  FROM  (SELECT (SUM(amount1)) AS total1, 'A' AS name FROM transaction1) as a  LEFT JOIN  (SELECT (COUNT(amount1)) as cnt1,'A' AS name FROM transaction1  WHERE amount1 <0  GROUP BY MONTH(date)  HAVING NOT(COUNT(amount1)<=3 OR SUM(amount1)>-100))AS b  ON a.name=b.name; |  |

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| CREATE TABLE TRANSACTION2(amount2 INT NOT NULL,date2 DATE);  INSERT INTO TRANSACTION2 VALUES(6000,'2020-04-03'),  (5000,'2020-04-02'),(4000,'2020-04-01'),(3000,'2020-03-01'),  (2000,'2020-02-01'),(1000,'2020-01-01');  SELECT (SUM(a.total1) - (12-COUNT(b.cnt1))\*5) as result  FROM  (SELECT (SUM(amount1)) AS total1, 'A' AS name FROM transaction1) as a  LEFT JOIN  (SELECT (COUNT(amount1)) as cnt1,'A' AS name FROM transaction1  WHERE amount1 <0  GROUP BY MONTH(date)  HAVING NOT(COUNT(amount1)<=3 OR SUM(amount1)>-100))AS b  ON a.name=b.name; |  |