Q.1) Display the total amount of payment made in every month. Your results should display month in word (Eg. JANUARY, FEBRUARY ...) and the total amount paid in that month. ANS

SELECT SUM(AMOUNT), CASE WHEN DATE LIKE '%-01-%' THEN 'JANUARY' WHEN DATE LIKE '%-02-%' THEN 'FEBRUARY' WHEN DATE LIKE '%-03-%' THEN 'MARCH' WHEN DATE LIKE '%-04-%' THEN 'APRIL' WHEN DATE LIKE '%-05-%' THEN 'MAY' WHEN DATE LIKE '%-06-%' THEN 'JUNE' WHEN DATE LIKE '%-07-%' THEN 'JULY' WHEN DATE LIKE'%-08-%' THEN 'AUGUST' WHEN DATE LIKE '%-10-%' THEN 'OCTOBER' WHEN DATE LIKE '%-11-%' THEN 'NOVEMBER' WHEN DATE LIKE '%-12-%' THEN 'DECEMBER' ELSE 'INVALID' END AS MONTH from PAYMENT GROUP BY MONTH;

+----+
| SUM(AMOUNT) | MONTH |
| +----+
8000	APRIL
2080428	JANUARY
10000	MARCH
1053714	OCTOBER
+----+	
4 rows in set (0.05 sec)	

Q.2)Print as the following condition satisfies for the time that passed between two payments for the same payment number.

- If the time between payments is within 1 year: Flag should be assigned 'FIRST YEAR'.
- If the time between payments is between 1st and 2nd year, then Flag should be assigned 'SECONDYEAR'.
- If time between payments is between 2nd and 3rd year, then flag should be assigned "THIRD YEAR".

• Otherwise assign flag = "Defaulter".

You must display the Payment Number, first date of payment, second date of payment, date difference and Flag. You may use the following hint.

Hint: DATEDIFF(date1, date2)—gives difference between the dates in days.

ANS

SELECT

S1.P_NO,S1.DATE,S2.DATE,DATEDIFF(S2.DATE,S1.DATE) AS DDIFF, CASE WHEN DATEDIFF(S2.DATE,S1.DATE)/365<1 THEN 'FIRST YEAR' WHEN DATEDIFF(S2.DATE,S1.DATE)/365<2 AND DATEDIFF(S2.DATE,S1.DATE)/365>1 THEN 'SECOND YEAR' WHEN DATEDIFF(S2.DATE,S1.DATE)/365<3 AND DATEDIFF(S2.DATE,S1.DATE)/365>2 THEN 'THIRD YEAR' ELSE 'DEFAULTER' END AS FLAG FROM PAYMENT AS S1,PAYMENT AS S2 WHERE S1.P_NO=S2.P_NO AND S2.DATE>S1.DATE ORDER BY FLAG;

++	+	+
IP_NOIDATE	I DATE	DDIFF FLAG
++	·+	+
l p2 2000-01-09	2011-10-09	9 4291 DEFAULTER
l p2 2000-01-09	12012-03-1	1 4445 DEFAULTER
lp1 2011-01-09	I 2011-03-11	1 61 FIRST YEAR
l p1 2011-10-08	12012-04-13	1 186 FIRST YEAR
l p1 12012-04-11	12012-10-25	5 197 FIRST YEAR
lp1 2011-01-09	I 2011-10-11	1 275 FIRST YEAR
p1 2011-10-11	12012-04-11	1 183 FIRST YEAR
lp1 2011-01-09	12011-10-08	8 272 FIRST YEAR
l p1 2011-10-08	I 2011-10-11	1 3 FIRST YEAR
l p2 2011-10-09	12012-03-13	1 154 FIRST YEAR
p1 2011-03-11	2011-10-08	3 211 FIRST YEAR
p1 2011-03-11	2011-10-11	214 FIRST YEAR

Q.3) Create a view which contains Branch Name, the Total amount in that branch and its rank based on the total amount. (For eg. If the total amount in the branch is >= 10000 then its Rank is 1. If it is >= 8000 and < 10000, then rank is 2, If it is >= 7000 and < 8000, then rank is 3. Otherwise rank is 4.

ANS:

CREATE VIEW ZONE_RANK_INFO AS select BR_NAME,sum(BALANCE) as sum,CASE WHEN sum(BALANCE)>=10000 THEN 1 WHEN sum(BALANCE)<10000 AND sum(BALANCE)>=8000 THEN 2 WHEN SUM(BALANCE)>=7000 AND SUM(BALANCE)<8000 THEN 3 ELSE 4 END AS RANK_ZONE from ACCOUNT_COPY group by BR_NAME order by sum(BALANCE) DESC;

Note: Tas please check by running the following queries one by one.

1. UPDATE ACCOUNT_COPY SET BALANCE = 12000 WHERE

```
BR_NAME = 'zone6';
```

Query OK, 1 row affected (0.10 sec)

Rows matched: 1 Changed: 1 Warnings: 0

2. SELECT * FROM ZONE_RANK_INFO;

+----+

| BR NAME | sum | RANK ZONE |

+----+

| zone1 | 13000 | 1 |

| zone6 | 12000 | 1 |

| zone4 | 10000 | 1 |

| zone7 | 9000 | 2 |

| zone9 | 7000 | 3 |

| zone3 | 6000 | 4 |

+----+

8 rows in set (0.00 sec)

3. UPDATE ACCOUNT_COPY SET BALANCE = 6000 WHERE

 $BR_NAME = 'zone6';$

Query OK, 1 row affected (0.07 sec)

Rows matched: 1 Changed: 1 Warnings: 0

4. SELECT * FROM ZONE_RANK_INFO;

+----+

| BR NAME | sum | RANK ZONE |

+----+

| zone1 | 13000 | 1 |

| zone2 | 10000 | 1 |

| zone4 | 10000 | 1 |

| zone7 | 9000 | 2 |

| zone8 | 8000 | 2 |

| zone9 | 7000 | 3 |

| zone3 | 6000 | 4 |

Q.4) Run the following queries one by one.

DROP TABLE IF EXISTS ORDERS;

CREATE TABLE ORDERS (ORD_ID INT, AMOUNT FLOAT, ORD_DATE DATE, CUSTOMERID INT, SALESMANID INT, PRIMARY KEY(ORD_ID));

INSERT INTO ORDERS VALUES (1, 270.65,'2012-09-10', 3001, 5005),(2, 150.5,'2012-10-05',3005,5002),(3,65.26,'2012-10-05', 3002,5001),(4,110.5,'2012-08-17',3009,5003),(5,948.5,'2012-09-10', 3005,5002),(6,2400.6,'2012-07-27',3007,5001),(7,5760,'2012-09-10', 3002,5001),(8,1983.43,'2012-10-10',3004,5006), (9,2480.4,'2012-10-10',3009,5003),(10,250.45,' 2012-06-27', 3008,5002),(11,75.29,'2012-08-17', 3003, 5007), (12,3045.6,'2012-04-25',3002,5001);

DROP TABLE IF EXISTS SALESMAN;

CREATE TABLE SALESMAN(SALESMANID INT, NAME VARCHAR(10), PRIMARY KEY(SALESMANID));

INSERT INTO SALESMAN VALUES (5001, 'JAMES'),(5002, 'NAIL'),(5005, 'PIT'),(5006, 'LYON'),(5003, 'LAUSON'),(5007, 'PAUL');

QUESTION – part a) You have to create a view called GOODSALESMAN that finds the salesman who has the customer with the highest order of a day. Display salesmanid, customerid and amount. Part b) You have to create a view GREATSALESMAN that finds the salesman who has the customer with the highest order of a day at least 3 times overall. Display salesmanid.

ANSWER

CREATE VIEW GOODSALESMAN AS SELECT SALESMANID, CUSTOMERID, AMOUNT FROM ORDERS A, (SELECT MAX(AMOUNT) AS AMT, ORD_DATE AS ORD_DATE FROM ORDERS C GROUP BY ORD_DATE) AS T WHERE T.ORD_DATE = A.ORD_DATE AND T.AMT = A.AMOUNT;

SELECT * FROM GOODSALESMAN; +-----+

| SALESMANID | CUSTOMERID | AMOUNT |

+-----+
5002	3005	150.5
5003	3009	110.5
5001	3007	2400.6
5001	3002	5760
5003	3009	2480.4
5002	3008	250.45
5001	3002	3045.6
+-----+		

7 rows in set (0.00 sec)

+----+

CREATE VIEW GREATSALESMAN AS SELECT DISTINCT SALESMANID, COUNT(*) AS A FROM GOODSALESMAN GROUP BY SALESMANID HAVING A >= 3; Query OK, 0 rows affected (0.03 sec)

mysql> SELECT * FROM GREATSALESMAN; +----+ | SALESMANID | A | +----+ | 5001 | 3 |