**NAME: A.S.MOHAMED MUBEEN**

**CODINC CHALLENGE V**

CREATE DATABASE CD5;

USE CD5;

CREATE TABLE EMPLOYEE(EMPLOYEE\_ID INT ,FIRST\_NAME VARCHAR(100),LAST\_NAME VARCHAR(100),SALARY INT,

JOINING\_DATE VARCHAR(100),DEPARTMENT VARCHAR(100));

DESCRIBE EMPLOYEE;

CREATE TABLE INCENTIVES(EMPLOYEE\_REF\_ID INT,INCENTIVE\_DATE VARCHAR(100),INCENTIVE\_AMOUNT INT);

DESCRIBE INCENTIVES;

INSERT INTO EMPLOYEE VALUES(1,'JOHN','ABRAHAM',1000000,'2013-01-01 12.00.00','BANKING');

INSERT INTO EMPLOYEE VALUES(2,'MICHAEL','CLARKE',800000,'2013-01-01 12.00.00','INSURANCE');

INSERT INTO EMPLOYEE VALUES(3,'ROY','THOMAS',700000,'2013-01-01 12.00.00','BANKING');

INSERT INTO EMPLOYEE VALUES(4,'TOM','JOSE',600000,'2013-01-01 12.00.00','INSURANCE');

INSERT INTO EMPLOYEE VALUES(5,'JERRY','PINTO',650000,'2013-01-01 12.00.00','INSURANCE');

INSERT INTO EMPLOYEE VALUES(6,'PHILIP','MATHEW',750000,'2013-01-01 12.00.00','SERVICES');

INSERT INTO EMPLOYEE VALUES(7,'TOWINO','THOMAS',650000,'2013-01-01 12.00.00','SERVICES');

INSERT INTO EMPLOYEE VALUES(8,'JEFFIN','JOSE',600000,'2013-01-01 12.00.00','INSURANCE');

INSERT INTO INCENTIVES VALUES(1,'2013-02-01',5000);

INSERT INTO INCENTIVES VALUES(2,'2013-02-01',3000);

INSERT INTO INCENTIVES VALUES(3,'2013-02-01',4000);

INSERT INTO INCENTIVES VALUES(4,'2013-01-01',4500);

INSERT INTO INCENTIVES VALUES(5,'2013-01-01',3500);

DROP TABLE EMPLOYEE;

DROP TABLE INCENTIVES;

-- ANSWER---

SELECT \* FROM EMPLOYEE;

SELECT FIRST\_NAME,LAST\_NAME FROM EMPLOYEE;

SELECT UPPER(FIRST\_NAME) FROM EMPLOYEE;

SELECT LOWER(FIRST\_NAME) FROM EMPLOYEE;

SELECT DISTINCT DEPARTMENT FROM EMPLOYEE;

SELECT LEFT(FIRST\_NAME,3) FROM EMPLOYEE;

SELECT POSITION('O' IN FIRST\_NAME) AS POSITION\_OF\_O FROM EMPLOYEE WHERE FIRST\_NAME='JOHN';

SELECT RTRIM(FIRST\_NAME) FROM EMPLOYEE;

SELECT LTRIM(FIRST\_NAME) FROM EMPLOYEE;

SELECT LENGTH(FIRST\_NAME) FROM EMPLOYEE;

SELECT REPLACE(FIRST\_NAME,'O','$') FROM EMPLOYEE;

SELECT CONCAT(FIRST\_NAME,'\_',LAST\_NAME) FROM EMPLOYEE;

SELECT FIRST\_NAME,YEAR(JOINING\_DATE),MONTH(JOINING\_DATE),DAY(JOINING\_DATE) FROM EMPLOYEE;

SELECT \* FROM EMPLOYEE ORDER BY FIRST\_NAME ASC;

SELECT \* FROM EMPLOYEE ORDER BY FIRST\_NAME DESC;

SELECT \* FROM EMPLOYEE ORDER BY FIRST\_NAME ASC,SALARY DESC;

SELECT \* FROM EMPLOYEE WHERE FIRST\_NAME='JOHN';

SELECT \* FROM EMPLOYEE WHERE FIRST\_NAME IN ('JOHN','ROY');

SELECT \* FROM EMPLOYEE WHERE FIRST\_NAME NOT IN ('JOHN','ROY');

SELECT \* FROM EMPLOYEE WHERE LENGTH(First\_Name) = 4 AND RIGHT(First\_Name, 1) = 'N';

SELECT \* FROM EMPLOYEE WHERE LENGTH(First\_Name) = 4 AND LEFT(First\_Name, 1) = 'J';

SELECT \* FROM EMPLOYEE WHERE SALARY > 600000;

SELECT \* FROM EMPLOYEE WHERE SALARY < 800000;

SELECT \* FROM EMPLOYEE WHERE SALARY BETWEEN 500000 AND 800000;

SELECT \* FROM EMPLOYEE WHERE FIRST\_NAME IN ('JOHN','MICHAEL');

SELECT \* FROM EMPLOYEE WHERE YEAR(JOINING\_DATE)=2013;

SELECT \* FROM EMPLOYEE WHERE MONTH(JOINING\_DATE)=01;

SELECT \* FROM EMPLOYEE WHERE JOINING\_DATE < '2013-01-01';

SELECT \* FROM EMPLOYEE WHERE JOINING\_DATE > '2013-01-31';

SELECT JOINING\_DATE FROM EMPLOYEE;

SELECT TIME\_FORMAT(JOINING\_DATE,'%H:%I:%S:%f') FROM EMPLOYEE;

SELECT DATEDIFF(JOINING\_DATE,INCENTIVE\_DATE) FROM EMPLOYEE,INCENTIVES;

select CURRENT\_DATE();

SELECT FIRST\_NAME,LAST\_NAME FROM EMPLOYEE WHERE LAST\_NAME LIKE '%\\%%';

SELECT REPLACE(LAST\_NAME,'%',' ') FROM EMPLOYEE;

SELECT DEPARTMENT ,AVG(SALARY) AS AVERAGE\_SALARY FROM EMPLOYEE

GROUP BY DEPARTMENT ORDER BY AVERAGE\_SALARY ASC;

SELECT DEPARTMENT ,MAX(SALARY) AS MAXIMUM\_SALARY FROM EMPLOYEE

GROUP BY DEPARTMENT ORDER BY MAXIMUM\_SALARY ASC;

SELECT DEPARTMENT ,MIN(SALARY) AS MINIMUM\_SALARY FROM EMPLOYEE

GROUP BY DEPARTMENT ORDER BY MINIMUM\_SALARY ASC;

SELECT YEAR(JOINING\_DATE) AS JOINING\_YEAR,MONTH(JOINING\_DATE)AS JOINING\_MONTH,COUNT(\*) AS NUM\_OF\_EMPLOYEE\_JOINED FROM EMPLOYEE GROUP BY YEAR(JOINING\_DATE), MONTH(JOINING\_DATE)ORDER BY JOINING\_YEAR,JOINING\_MONTH;

SELECT DEPARTMENT,SUM(SALARY) AS TOTAL\_SALARY FROM EMPLOYEE GROUP BY DEPARTMENT

HAVING SUM(SALARY)>800000 ORDER BY TOTAL\_SALARY DESC;

SELECT E.FIRST\_NAME,I.INCENTIVE\_AMOUNT FROM EMPLOYEE E INNER JOIN INCENTIVES I ON

E.EMPLOYEE\_ID=I.EMPLOYEE\_REF\_ID;

SELECT E.FIRST\_NAME,I.INCENTIVE\_AMOUNT FROM EMPLOYEE E INNER JOIN INCENTIVES I ON

E.EMPLOYEE\_ID=I.EMPLOYEE\_REF\_ID WHERE I.INCENTIVE\_AMOUNT>3000;

SELECT E.FIRST\_NAME,I.INCENTIVE\_AMOUNT FROM EMPLOYEE E LEFT JOIN INCENTIVES I ON

E.EMPLOYEE\_ID=I.EMPLOYEE\_REF\_ID;

SELECT E.FIRST\_NAME,COALESCE(I.INCENTIVE\_AMOUNT,'0') FROM EMPLOYEE E RIGHT JOIN INCENTIVES I ON

E.EMPLOYEE\_ID=I.EMPLOYEE\_REF\_ID;

SELECT FIRST\_NAME,(SELECT COALESCE(MAX(INCENTIVE\_AMOUNT),0) FROM INCENTIVES

WHERE EMPLOYEE\_REF\_ID=EMPLOYEE\_ID) FROM EMPLOYEE;

SELECT SALARY FROM EMPLOYEE ORDER BY SALARY DESC LIMIT 2;

SELECT SALARY FROM EMPLOYEE ORDER BY SALARY DESC LIMIT 1 OFFSET 1;

SELECT FIRST\_NAME FROM EMPLOYEE

UNION

SELECT LAST\_NAME FROM EMPLOYEE;

SELECT \* FROM EMPLOYEE E INNER JOIN INCENTIVES I ON E.EMPLOYEE\_ID=I.EMPLOYEE\_REF\_ID;

SELECT FIRST\_NAME,SALARY ,

CASE

WHEN FIRST\_NAME='JOHN' THEN SALARY \* 0.20

WHEN FIRST\_NAME='ROY' THEN SALARY \* 0.10

ELSE SALARY \* 0.15

END FROM EMPLOYEE;

SELECT DEPARTMENT,

CASE

WHEN DEPARTMENT='BANKING' THEN 'Bank Dept'

WHEN DEPARTMENT='INSURANCE' THEN 'Insurance Dept'

WHEN DEPARTMENT='SERVICES' THEN 'Services Dept'

ELSE DEPARTMENT

END FROM EMPLOYEE;

SET SQL\_SAFE\_UPDATES=0;

DELETE FROM EMPLOYEE WHERE EMPLOYEE\_ID IN(SELECT EMPLOYEE\_REF\_ID FROM INCENTIVES);

INSERT INTO EMPLOYEE(LAST\_NAME) VALUES("'");

UPDATE INCENTIVES SET INCENTIVE\_AMOUNT='13000'

WHERE EMPLOYEE\_REF\_ID=(SELECT EMPLOYEE\_ID FROM EMPLOYEE WHERE FIRST\_NAME='JOHN');