# SQL ASSIGNMENT

1. **Write a query which will display the customer id, account type they hold, their account number and bank name.**

SQL> SELECT A.CUSTOMER\_ID,A.ACCOUNT\_TYPE,A.ACCOUNT\_NO,B.BANK\_NAME

2 FROM ACCOUNT\_INFO A

3 INNER JOIN

4 BANK\_INFO B

5 ON A.IFSC\_CODE = B.IFSC\_CODE;

CUSTO ACCOUNT\_TY ACCOUNT\_NO BANK\_NAME

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C-004 SALARY 1.2346E+15 HDFC

C-001 SAVINGS 1.2346E+15 HDFC

C-002 SALARY 1.2346E+15 SBI

C-003 SAVINGS 1.2346E+15 ICICI

C-005 SAVINGS 1.2346E+15 SBI

1. **Write a query which will display the customer id, account type and the account number of HDFC customers who registered after 12-JAN-2012 and before 04-APR-2012.**

SQL> SELECT A.CUSTOMER\_ID, A.ACCOUNT\_TYPE,A.ACCOUNT\_NO FROM ACCOUNT\_INFO A

2 INNER JOIN

3 BANK\_INFO B

4 ON A.IFSC\_CODE = B.IFSC\_CODE

5 WHERE A.REGISTRATION\_DATE BETWEEN '13-JAN-2012' AND '03-APR-2012' AND B.BANK\_NAME = 'HDFC';

CUSTO ACCOUNT\_TY ACCOUNT\_NO

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C-001 SAVINGS 1.2346E+15

1. **Write a query which will display the customer id, customer name, account no, account type and bank name where the customers hold the account.**

SQL> SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,A.ACCOUNT\_NO,A.ACCOUNT\_TYPE,B.BANK\_NAME

2 FROM BANK\_INFO B

3 INNER JOIN ACCOUNT\_INFO A

4 ON B.IFSC\_CODE = A.IFSC\_CODE

5 INNER JOIN CUSTOMER\_PERSONAL\_INFO C

6 ON C.CUSTOMER\_ID = A.CUSTOMER\_ID;

CUSTO CUSTOMER\_NAME ACCOUNT\_NO ACCOUNT\_TY BANK\_NAME

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C-001 JOHN 1.2346E+15 SAVINGS HDFC

C-002 JAMES 1.2346E+15 SALARY SBI

C-003 SUNITHA 1.2346E+15 SAVINGS ICICI

C-004 RAMESH 1.2346E+15 SALARY HDFC

C-005 KUMAR 1.2346E+15 SAVINGS SBI

1. **Write a query which will display the customer id, customer name, gender, marital status along with the unique reference string and**

**sort the records based on customer id in descending order.**

SQL> SELECT CUSTOMER\_ID,CUSTOMER\_NAME,GENDER,MARITAL\_STATUS,CONCAT(CONCAT(CONCAT(CONCAT(CUSTOMER\_NAME,'\_'),GENDER),'\_'),MARITAL\_STATUS) AS UNIQUE\_REF\_STRING FROM CUSTOMER\_PERSONAL\_INFO;

CUSTO CUSTOMER\_NAME G MARITAL\_ST UNIQUE\_REF\_STRING

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C-001 JOHN M SINGLE JOHN\_M\_SINGLE

C-002 JAMES M MARRIED JAMES\_M\_MARRIED

C-003 SUNITHA F SINGLE SUNITHA\_F\_SINGLE

C-004 RAMESH M MARRIED RAMESH\_M\_MARRIED

C-005 KUMAR M SINGLE KUMAR\_M\_SINGLE

1. **Write a query which will display the account number, customer id, registration date, initial deposit amount of the customer whose initial deposit amount is within the range of Rs.15000 to Rs.25000.**

SQL> SELECT ACCOUNT\_NO, CUSTOMER\_ID, REGISTRATION\_DATE, INITIAL\_DEPOSIT

2 FROM ACCOUNT\_INFO

3 WHERE INITIAL\_DEPOSIT BETWEEN 15000 AND 25000;

ACCOUNT\_NO CUSTO REGISTRAT INITIAL\_DEPOSIT

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1.2346E+15 C-003 15-MAR-12 16000

1.2346E+15 C-005 12-APR-12 20000

1. **Write a query which will display customer id, customer name, date of birth, guardian name of the customers whose name starts with 'J'**

SQL> SELECT CUSTOMER\_ID,CUSTOMER\_NAME,DATE\_OF\_BIRTH,GUARDIAN\_NAME

2 FROM CUSTOMER\_PERSONAL\_INFO

3 WHERE CUSTOMER\_NAME LIKE 'J%';

CUSTO CUSTOMER\_NAME DATE\_OF\_B GUARDIAN\_NAME

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C-001 JOHN 03-MAY-84 PETER

C-002 JAMES 06-AUG-84 GEORGE

1. **Write a query which will display customer id, account number and passcode**

SQL> SELECT CUSTOMER\_ID,ACCOUNT\_NO,CONCAT(SUBSTR(CUSTOMER\_ID,-3),SUBSTR(ACCOUNT\_NO,-4)) AS PASSCODE

2 FROM ACCOUNT\_INFO;

CUSTO ACCOUNT\_NO PASSCOD

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C-001 1.2346E+15 0015432

C-002 1.2346E+15 0025433

C-003 1.2346E+15 0035434

C-004 1.2346E+15 0045435

C-005 1.2346E+15 0055436

1. **Write a query which will display the customer id, customer name, date of birth, Marital Status, Gender, Guardian name, contact no and emAl id of the customers whose gender is male 'M' and marital status is MARRIED.**

SQL> SELECT CUSTOMER\_ID, CUSTOMER\_NAME, DATE\_OF\_BIRTH, MARITAL\_STATUS, GENDER, GUARDIAN\_NAME, CONTACT\_NO, MAL\_ID

2 FROM CUSTOMER\_PERSONAL\_INFO

3 WHERE GENDER='M' AND MARITAL\_STATUS='MARRIED';

CUSTO CUSTOMER\_NAME DATE\_OF\_B MARITAL\_ST G GUARDIAN\_NAME

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CONTACT\_NO MAL\_ID

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C-002 JAMES 06-AUG-84 MARRIED M GEORGE

9237893481 JAMES\_123@gmAl.com

C-004 RAMESH 11-DEC-85 MARRIED M KRISHNAN

9235234534 [RAMESH\_123@gmAl.com](mailto:RAMESH_123@gmail.com)

1. **Write a query which will display the customer id, customer name, guardian name, reference account holders name of the customers**

**who are referenced / referred by their 'FRIEND'.**

SQL> SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, C.GUARDIAN\_NAME, R.REFERENCE\_ACC\_NAME AS FRIEND

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN CUSTOMER\_REFERENCE\_INFO R

4 ON C.CUSTOMER\_ID=R.CUSTOMER\_ID;

CUSTO CUSTOMER\_NAME GUARDIAN\_NAME FRIEND

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C-001 JOHN PETER RAM

C-002 JAMES GEORGE RAGHUL

C-003 SUNITHA VINOD GOKUL

C-004 RAMESH KRISHNAN RAHMAN

C-005 KUMAR KIRAN VIVEK

1. **Write a query to display the customer id, account number and interest amount in the below format with INTEREST\_AMT as alias name**

**Sort the result based on the INTEREST\_AMT in ascending order. <BR/>Example:**

**$5<BR/>Hint: Need to prefix $ to interest amount and round the result without decimals.**

SQL> SELECT CUSTOMER\_ID, ACCOUNT\_NO, CONCAT('$',ROUND(INTEREST,0)) AS INTEREST\_AMT

2 FROM ACCOUNT\_INFO;

CUSTO ACCOUNT\_NO INTEREST\_AMT

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C-001 1.2346E+15 $5

C-002 1.2346E+15 $6

C-003 1.2346E+15 $4

C-004 1.2346E+15 $7

C-005 1.2346E+15 $8

1. **Write a query which will display the customer id, customer name, account no, account type, activation date,**

**bank name whose account will be activated on '10-APR-2012'**

SQL> SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, A.ACCOUNT\_NO, A.ACCOUNT\_TYPE, A.ACTIVATION\_DATE, B.BANK\_NAME

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN ACCOUNT\_INFO A

4 ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

5 INNER JOIN BANK\_INFO B

6 ON B.IFSC\_CODE=A.IFSC\_CODE

7 WHERE A.ACTIVATION\_DATE='10-APR-2012';

CUSTO CUSTOMER\_NAME ACCOUNT\_NO ACCOUNT\_TY ACTIVATIO

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BANK\_NAME

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C-004 RAMESH 1.2346E+15 SALARY 10-APR-12

HDFC

1. **Write a query which will display account number, customer id, customer name, bank name, branch name, ifsc code, citizenship, interest and initial deposit amount of all the customers.**

SELECT A.ACCOUNT\_NO, C.CUSTOMER\_ID, C.CUSTOMER\_NAME, B.BANK\_NAME, B.BRANCH\_NAME, B.IFSC\_CODE, C.CITIZENSHIP, A.INTEREST, A.INITIAL\_DEPOSIT

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN ACCOUNT\_INFO A

4 ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

5 INNER JOIN BANK\_INFO B

6 ON B.IFSC\_CODE=A.IFSC\_CODE;

ACCOUNT\_NO CUSTO CUSTOMER\_NAME BANK\_NAME

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BRANCH\_NAME IFSC\_CODE CITIZENSHI INTEREST INITIAL\_DEPOSIT

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1.2346E+15 C-004 RAMESH HDFC

VALASARAVAKKAM HDVL0012 INDIAN 7 0

1.2346E+15 C-001 JOHN HDFC

VALASARAVAKKAM HDVL0012 INDIAN 5 10000

1.2346E+15 C-002 JAMES SBI

TNAGAR SBITN0123 INDIAN 6 0

ACCOUNT\_NO CUSTO CUSTOMER\_NAME BANK\_NAME

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BRANCH\_NAME IFSC\_CODE CITIZENSHI INTEREST INITIAL\_DEPOSIT

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1.2346E+15 C-003 SUNITHA ICICI

TNAGAR ICITN0232 INDIAN 4 16000

1.2346E+15 C-005 KUMAR SBI

SADAPET SBISD0113 INDIAN 8 20000

1. **Write a query which will display customer id, customer name, date of birth, guardian name, contact number,**

**mAl id and reference account holder's name of the customers who has submitted the passport as an identification document.**

SQL> SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, C.DATE\_OF\_BIRTH, C.GUARDIAN\_NAME, CP.MAL\_ID, R.REFERENCE\_ACC\_NAME

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN CUSTOMER\_REFERENCE\_INFO R

4 ON C.CUSTOMER\_ID=R.CUSTOMER\_ID

5 WHERE C.IDENTIFICATION\_DOC\_TYPE='PASSPORT';

CUSTO CUSTOMER\_NAME DATE\_OF\_B GUARDIAN\_NAME

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MAL\_ID REFERENCE\_ACC\_NAME

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C-001 JOHN 03-MAY-84 PETER

JOHN\_123@gmAl.com RAM

C-002 JAMES 06-AUG-84 GEORGE

JAMES\_123@gmAl.com RAGHUL

C-004 RAMESH 11-DEC-85 KRISHNAN

RAMESH\_123@gmAl.com RAHMAN

CUSTO CUSTOMER\_NAME DATE\_OF\_B GUARDIAN\_NAME

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MAL\_ID REFERENCE\_ACC\_NAME

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C-005 KUMAR 26-APR-83 KIRAN

KUMAR\_123@gmAl.com VIVEK

16. **Write a query to display the customer id, customer name, account no, bank name, contact no**

**and mAl id of the customers who are from BANGALORE.**

SQL> SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, A.ACCOUNT\_NO, B.BANK\_NAME, B.BRANCH\_NAME, C.CONTACT\_NO, C.MAL\_ID

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN ACCOUNT\_INFO A

4 ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

5 INNER JOIN BANK\_INFO B

6 ON B.IFSC\_CODE=A.IFSC\_CODE

7 WHERE C.ADDRESS LIKE '%BANGALORE';

CUSTO CUSTOMER\_NAME ACCOUNT\_NO BANK\_NAME

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BRANCH\_NAME CONTACT\_NO MAL\_ID

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C-001 JOHN 1.2346E+15 HDFC

VALASARAVAKKAM 9734526719 JOHN\_123@gmAl.com

C-002 JAMES 1.2346E+15 SBI

TNAGAR 9237893481 JAMES\_123@gmAl.com

C-005 KUMAR 1.2346E+15 SBI

SADAPET 9242342312 [KUMAR\_123@gmAl.com](mailto:KUMAR_123@gmail.com)

17. **Write a query which will display customer id, bank name, branch name, ifsc code, registration date,**

**activation date of the customers whose activation date is in the month of march (March 1'st to March 31'st)**

SQL> SELECT C.CUSTOMER\_ID, B.BANK\_NAME, B.BRANCH\_NAME, B.IFSC\_CODE, A.REGISTRATION\_DATE, A.ACTIVATION\_DATE

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN ACCOUNT\_INFO A

4 ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

5 INNER JOIN BANK\_INFO B

6 ON B.IFSC\_CODE=A.IFSC\_CODE

7 WHERE ACTIVATION\_DATE LIKE '\_\_-03-\_\_\_\_';

no rows selected

18. **Write a query which will calculate the interest amount and display it along with customer id, customer name,**

**account number, account type, interest, and initial deposit amount.<BR>Hint :Formula for interest amount,**

**calculate: ((interest/100) \* initial deposit amt) with column name 'interest\_amt' (alias)**

SQL> SELECT ((INTEREST/100)\*INITIAL\_DEPOSIT) AS INTEREST\_AMT, C.CUSTOMER\_ID, C.CUSTOMER\_NAME, A.ACCOUNT\_NO, A.ACCOUNT\_TYPE, A.INTEREST, A.INITIAL\_DEPOSIT

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN ACCOUNT\_INFO A

4 ON C.CUSTOMER\_ID=A.CUSTOMER\_ID;

INTEREST\_AMT CUSTO CUSTOMER\_NAME ACCOUNT\_NO ACCOUNT\_TY INTEREST

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INITIAL\_DEPOSIT

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500 C-001 JOHN 1.2346E+15 SAVINGS 5

10000

0 C-002 JAMES 1.2346E+15 SALARY 6

0

640 C-003 SUNITHA 1.2346E+15 SAVINGS 4

16000

INTEREST\_AMT CUSTO CUSTOMER\_NAME ACCOUNT\_NO ACCOUNT\_TY INTEREST

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INITIAL\_DEPOSIT

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0 C-004 RAMESH 1.2346E+15 SALARY 7

0

1600 C-005 KUMAR 1.2346E+15 SAVINGS 8

20000

19. **Write a query to display the customer id, customer name, date of birth, guardian name, contact number,**

**mAl id, reference name who has been referenced by 'RAGHUL'**

SQL> SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, C.DATE\_OF\_BIRTH, C.GUARDIAN\_NAME, C.CONTACT\_NO, C.MAL\_ID, R.REFERENCE\_ACC\_NAME

2 FROM CUSTOMER\_PERSONAL\_INFO C

3 INNER JOIN CUSTOMER\_REFERENCE\_INFO R

4 ON C.CUSTOMER\_ID=R.CUSTOMER\_ID

5 WHERE R.REFERENCE\_ACC\_NAME='RAGHUL';

CUSTO CUSTOMER\_NAME DATE\_OF\_B GUARDIAN\_NAME CONTACT\_NO

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MAL\_ID REFERENCE\_ACC\_NAME

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C-002 JAMES 06-AUG-84 GEORGE 9237893481

JAMES\_123@gmAl.com RAGHUL

20. **Write a query which will display the customer id, customer name and contact number with ISD code of**

**all customers in below mentioned format. Sort the result based on the customer id in descending order.**

SQL> SELECT CUSTOMER\_ID,CUSTOMER\_NAME,CONCAT(CONCAT(CONCAT(CONCAT(CONCAT('+91',SUBSTR(CONTACT\_NO,1,3)),'-'),SUBSTR(CONTACT\_NO,4,3)),'-'),SUBSTR(CONTACT\_NO,-4)) AS CONTACT\_ISD FROM CUSTOMER\_PERSONAL\_INFO ORDER BY CUSTOMER\_ID DESC;

CUSTO CUSTOMER\_NAME CONTACT\_ISD

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C-005 KUMAR +91924-234-2312

C-004 RAMESH +91923-523-4534

C-003 SUNITHA +91943-897-8389

C-002 JAMES +91923-789-3481

C-001 JOHN +91973-452-6719

21. **Write a query which will display account number, account type, customer id, customer name, date of birth, guardian name,**

**contact no, mAl id , gender, reference account holders name, reference account holders account number, registration date,**

**activation date, number of days between the registration date and activation date with alias name "NoofdaysforActivation",**

**bank name, branch name and initial deposit for all the customers.**

23. **"Write a query which will display the customer id, customer name, account number, account type, interest, initial deposit;**

**<br/>check the initial deposit,<br/> if initial deposit is 20000 then display ""high"",<br/> if initial deposit is 16000 display 'moderate'**

**,<br/> if initial deposit is 10000 display 'average', <br/>if initial deposit is 5000 display 'low', <br/>if initial deposit is 0 display**

**'very low' otherwise display 'invalid' and sort by interest in descending order.<br/>**

**Hint: Name the column as ""Deposit\_Status"" (alias).**

**<br/>Strictly follow the lower case for strings in this query."**

SQL> SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, A.ACCOUNT\_NO, A.ACCOUNT\_TYPE, A.INTEREST, A.INITIAL\_DEPOSIT,

2 CASE

3 WHEN INITIAL\_DEPOSIT=20000 THEN 'high'

4 WHEN INITIAL\_DEPOSIT=16000 THEN 'moderate'

5 WHEN INITIAL\_DEPOSIT=10000 THEN 'average'

6 WHEN INITIAL\_DEPOSIT=5000 THEN 'low'

7 WHEN INITIAL\_DEPOSIT=0 THEN 'very low'

8 ELSE 'invalid' END DEPOSIT\_STATUS

9 FROM CUSTOMER\_PERSONAL\_INFO C

10 INNER JOIN ACCOUNT\_INFO A

11 ON C.CUSTOMER\_ID=A.CUSTOMER\_ID;

CUSTO CUSTOMER\_NAME ACCOUNT\_NO ACCOUNT\_TY INTEREST INITIAL\_DEPOSIT

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DEPOSIT\_

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C-001 JOHN 1.2346E+15 SAVINGS 5 10000

average

C-002 JAMES 1.2346E+15 SALARY 6 0

very low

C-003 SUNITHA 1.2346E+15 SAVINGS 4 16000

moderate

CUSTO CUSTOMER\_NAME ACCOUNT\_NO ACCOUNT\_TY INTEREST INITIAL\_DEPOSIT

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DEPOSIT\_

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C-004 RAMESH 1.2346E+15 SALARY 7 0

very low

C-005 KUMAR 1.2346E+15 SAVINGS 8 20000

high

**24. "Write a query which will display customer id, customer name, account number, account type, bank name, ifsc code, initial deposit amount**

**and new interest amount for the customers whose name starts with ""J"".**

**<br/> Hint: Formula for calculating ""new interest amount"" is**

**if customers account type is savings then add 10 % on current interest amount to interest amount else display the current interest amount.**

**Round the new interest amount to 2 decimals.<br/> Use ""NEW\_INTEREST"" as alias name for displaying the new interest amount.**