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

Ans1) SELECT CUSTOMER\_ID, ACCOUNT\_TYPE, ACCOUNT\_NO, BANK\_NAME FROM ACCOUNT\_INFO INNER JOIN BANK\_INFO ON ACCOUNT\_INFO.IFSC\_CODE = BANK\_INFO.IFSC\_CODE;

2.\*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.

Ans2) SELECT CUSTOMER\_ID, ACCOUNT\_TYPE, ACCOUNT\_NO FROM ACCOUNT\_INFO INNER JOIN BANK\_INFO ON ACCOUNT\_INFO.IFSC\_CODE = BANK\_INFO.IFSC\_CODE WHERE BANK\_INFO.BANK\_NAME = 'HDFC' AND REGISTRATION\_DATE BETWEEN '12-JAN-2012' AND '04-APR-2012’;

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

Ans3) SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,A.ACCOUNT\_TYPE,A.ACCOUNT\_NO,B.BANK\_NAME

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN ACCOUNT\_INFO A ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

JOIN BANK\_INFO B ON B.IFSC\_CODE=A.IFSC\_CODE

WHERE A.ACCOUNT\_NO IS NOT NULL;

4.\*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. <br/>

<br/><b>Hint: </b>Generate unique reference string as mentioned below

:

<br/> CustomerName\_Gender\_MaritalStatus

<br/><b> Example, </b>

<br/> C-005 KUMAR M SINGLE KUMAR\_M\_SINGLE

<BR/>

Use ""UNIQUE\_REF\_STRING"" as alias name for displaying the unique reference string."

Ans4) SELECT CUSTOMER\_ID, CUSTOMER\_NAME, GENDER, MARITAL\_STATUS, CONCAT(CUSTOMER\_NAME,CONCAT('\_',CONCAT(GENDER,CONCAT('\_',MARITAL\_STATUS)))) AS "UNIQUE\_REF\_STRING" FROM CUSTOMER\_PERSONAL\_INFO ORDER BY CUSTOMER\_ID DESC;

5.\*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.

Ans5) SELECT ACCOUNT\_NO, CUSTOMER\_ID, REGISTRATION\_DATE, INITIAL\_DEPOSIT FROM ACCOUNT\_INFO WHERE INITIAL\_DEPOSIT BETWEEN 15000 AND 25000;

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

Ans6) SELECT CUSTOMER\_ID,CUSTOMER\_NAME,DATE\_OF\_BIRTH,GUARDIAN\_NAME from CUSTOMER\_PERSONAL\_INFO WHERE CUSTOMER\_NAME LIKE 'J%';

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

<br/>

Hint: To generate passcode, join the last three digits of customer id and last four digit of account number.

<br/>Example

<br/>C-001 1234567898765432 0015432

<br/>Use ""PASSCODE"" as alias name for displaying the passcode."

Ans7) SELECT CUSTOMER\_ID, ACCOUNT\_NO,CONCAT( SUBSTR(CUSTOMER\_ID, 3,5),SUBSTR(ACCOUNT\_NO, 13,16)) AS "PASSCODE" FROM ACCOUNT\_INFO;

8.\*Write a query which will display the customer id, customer name, date of birth, Marital Status, Gender, Guardian name,

contact no and email id of the customers whose gender is male 'M' and marital status is MARRIED.

Ans8) SELECT CUSTOMER\_ID, CUSTOMER\_NAME, DATE\_OF\_BIRTH, MARITAL\_STATUS, GENDER, GUARDIAN\_NAME, CONTACT\_NO, MAIL\_ID FROM CUSTOMER\_PERSONAL\_INFO WHERE GENDER='M' AND MARITAL\_STATUS='MARRIED';

9.\*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'.

Ans9) SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,C.GUARDIAN\_NAME, CR.REFERENCE\_ACC\_NAME, CR.REFERENCE\_ACC\_NAME

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN CUSTOMER\_REFERENCE\_INFO CR ON C.CUSTOMER\_ID=CR.CUSTOMER\_ID

WHERE CR.RELATION ='FRIEND';

10.\*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.

Ans10) SELECT C.CUSTOMER\_ID,A.ACCOUNT\_NO, CONCAT('$', TO\_CHAR(A.INTEREST)) AS INTEREST\_AMT

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN ACCOUNT\_INFO A ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

ORDER BY A.INTEREST ASC;

SELECT C.CUSTOMER\_ID,A.ACCOUNT\_NO, CONCAT('$', TO\_CHAR(A.INTEREST)) AS INTEREST\_AMT

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN ACCOUNT\_INFO A ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

ORDER BY A.INTEREST ASC;

11.\*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'

Ans11) SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,A.ACCOUNT\_TYPE,A.ACCOUNT\_NO,B.BANK\_NAME,A.ACTIVATION\_DATE

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN ACCOUNT\_INFO A ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

JOIN BANK\_INFO B ON B.IFSC\_CODE=A.IFSC\_CODE

WHERE ACTIVATION\_DATE=TO\_DATE('10-APR-2012','DD-MM-YYYY');

12.\*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.

Ans12) SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,A.ACCOUNT\_NO,B.BANK\_NAME,B.BRANCH\_NAME,A.IFSC\_CODE,C.CITIZENSHIP,A.INTEREST,A.INITIAL\_DEPOSIT

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN ACCOUNT\_INFO A ON C.CUSTOMER\_ID=A.CUSTOMER\_ID

JOIN BANK\_INFO B ON B.IFSC\_CODE=A.IFSC\_CODE;

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

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

Ans13) SELECT CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_ID,CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_NAME,CUSTOMER\_PERSONAL\_INFO.DATE\_OF\_BIRTH,CUSTOMER\_PERSONAL\_INFO.GUARDIAN\_NAME,

CUSTOMER\_PERSONAL\_INFO.CONTACT\_NO,CUSTOMER\_PERSONAL\_INFO.MAIL\_ID,CUSTOMER\_REFERENCE\_INFO.REFERENCE\_ACC\_NO FROM CUSTOMER\_PERSONAL\_INFO

INNER JOIN CUSTOMER\_REFERENCE\_INFO ON CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_ID=CUSTOMER\_REFERENCE\_INFO.CUSTOMER\_ID where

CUSTOMER\_PERSONAL\_INFO.IDENTIFICATION\_DOC\_TYPE='PASSPORT';

14.\*Write a query to display the customer id, customer name, account number, account type, initial deposit,

interest who have deposited maximum amount in the bank.

Ans14) SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,B.ACCOUNT\_NO,B.ACCOUNT\_TYPE,B.INITIAL\_DEPOSIT,B.INTEREST FROM CUSTOMER\_PERSONAL\_INFO C JOIN ACCOUNT\_INFO B ON C.CUSTOMER\_ID=B.CUSTOMER\_ID WHERE INITIAL\_DEPOSIT=(SELECT MAX(INITIAL\_DEPOSIT) FROM ACCOUNT\_INFO);

15.\*Write a query to display the customer id, customer name, account number, account type, interest, bank name

and initial deposit amount of the customers who are getting maximum interest rate.

Ans15) SELECT C.CUSTOMER\_ID,C.CUSTOMER\_NAME,B.ACCOUNT\_NO,B.ACCOUNT\_TYPE,B.INITIAL\_DEPOSIT,B.INTEREST FROM CUSTOMER\_PERSONAL\_INFO C JOIN ACCOUNT\_INFO B ON C.CUSTOMER\_ID=B.CUSTOMER\_ID WHERE INTEREST=(SELECT MAX(INTEREST) FROM ACCOUNT\_INFO);

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

and mail id of the customers who are from BANGALORE.

Ans16) select CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_ID,CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_NAME,CUSTOMER\_PERSONAL\_INFO.CONTACT\_NO,CUSTOMER\_PERSONAL\_INFO.MAIL\_ID,CUSTOMER\_PERSONAL\_INFO.ADDRESS,BANK\_INFO.BANK\_NAME,ACCOUNT\_INFO.ACCOUNT\_NO from CUSTOMER\_PERSONAL\_INFO,BANK\_INFO,ACCOUNT\_INFO where ADDRESS like '%BANGALORE' and ACCOUNT\_INFO.CUSTOMER\_ID=CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_ID and ACCOUNT\_INFO.IFSC\_CODE=BANK\_INFO.IFSC\_CODE;

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).

Ans17) SELECT ACCOUNT\_INFO.CUSTOMER\_ID,BANK\_INFO.BANK\_NAME,BANK\_INFO.BRANCH\_NAME,ACCOUNT\_INFO.IFSC\_CODE,ACCOUNT\_INFO.REGISTRATION\_DATE,ACCOUNT\_INFO.ACTIVATION\_DATE from ACCOUNT\_INFO,BANK\_INFO where ACTIVATION\_DATE BETWEEN '29-FEB-2012' AND '01-APRIL-2012' and ACCOUNT\_INFO.IFSC\_CODE=BANK\_INFO.IFSC\_CODE;

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)

Ans18) SELECT CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_ID,CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_NAME,ACCOUNT\_INFO.ACCOUNT\_NO,ACCOUNT\_INFO.ACCOUNT\_TYPE,ACCOUNT\_INFO.INTEREST,ACCOUNT\_INFO.INITIAL\_DEPOSIT,BANK\_INFO.BANK\_NAME,((INTEREST/100)\*INITIAL\_DEPOSIT) AS INTEREST\_AMT FROM CUSTOMER\_PERSONAL\_INFO,ACCOUNT\_INFO,BANK\_INFO WHERE CUSTOMER\_PERSONAL\_INFO.CUSTOMER\_ID=ACCOUNT\_INFO.CUSTOMER\_ID AND ACCOUNT\_INFO.IFSC\_CODE=BANK\_INFO.IFSC\_CODE;

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

mail id, reference name who has been referenced by 'RAGHUL'.

Ans19) SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, C.DATE\_OF\_BIRTH, C.GUARDIAN\_NAME, C.CONTACT\_NO, C.MAIL\_ID, CR.REFERENCE\_ACC\_NAME

FROM CUSTOMER\_PERSONAL\_INFO C

INNER JOIN CUSTOMER\_REFERENCE\_INFO CR

ON C.CUSTOMER\_ID=CR.CUSTOMER\_ID

WHERE CR.REFERENCE\_ACC\_NAME='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.

<BR>Format for contact number is :

<br/> ""+91-3digits-3digits-4digits""

<br/> Example: +91-924-234-2312

<br/> Use ""CONTACT\_ISD"" as alias name."

Ans20) SELECT CUSTOMER\_ID, CUSTOMER\_NAME, CONCAT('+91-',CONCAT(SUBSTR(CONTACT\_NO,1,3),CONCAT('-',CONCAT(SUBSTR(CONTACT\_NO,4,3),CONCAT('-',(SUBSTR(CONTACT\_NO,7,4))))))) AS CONTACT\_ISD

FROM CUSTOMER\_PERSONAL\_INFO

ORDER BY CUSTOMER\_ID DESC;

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

contact no, mail 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.

Ans21) SELECT A.ACCOUNT\_NO, A.ACCOUNT\_TYPE, A.CUSTOMER\_ID, C1.CUSTOMER\_NAME, C1.DATE\_OF\_BIRTH, C1.GUARDIAN\_NAME, C1.CONTACT\_NO, C1.MAIL\_ID, C1.GENDER, C2.REFERENCE\_ACC\_NAME, C2.REFERENCE\_ACC\_NO, A.REGISTRATION\_DATE, A.ACTIVATION\_DATE, DATEDIFF(A.REGISTRATION\_DATE, A.ACTIVATION\_DATE) AS 'NOOFDAYSFORACTIVATION' ,B.BANK\_NAME, B.BRANCH\_NAME, A.INITIAL\_DEPOSIT FROM CUSTOMER\_PERSONAL\_INFO C1 JOIN CUSTOMER\_REFERENCE\_INFO C2 ON C1.CUSTOMER\_ID=C2.CUSTOMER\_ID JOIN BANK\_INFO ON C2.CUSTOMER\_ID=B.CUSTOMER\_ID JOIN ACCOUNT\_INFO A ON B.CUSTOMER\_ID=A.CUSTOMER\_ID;

22."Write a query which will display customer id, customer name, guardian name, identification doc type,

reference account holders name, account type, ifsc code, bank name and current balance for the customers

who has only the savings account.

<br/>Hint: Formula for calculating current balance is add the intital deposit amount and interest

and display without any decimals. Use ""CURRENT\_BALANCE"" as alias name."

Ans22) SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME ,C.GUARDIAN\_NAME ,C.IDENTIFICATION\_DOC\_TYPE ,

R.REFERENCE\_ACC\_NAME ,

A.ACCOUNT\_TYPE,A.IFSC\_CODE ,

B.BANK\_NAME, (FLOOR(INITIAL\_DEPOSIT +INTEREST )) AS CURRENT\_BALANCE

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN CUSTOMER\_REFERENCE\_INFO R

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

JOIN ACCOUNT\_INFO A

ON R.CUSTOMER\_ID= A.CUSTOMER\_ID

JOIN BANK\_INFO B

ON A.IFSC\_CODE=B.IFSC\_CODE WHERE A.ACCOUNT\_TYPE='SAVINGS';

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."

Ans23) SELECT A.CUSTOMER\_ID,B.CUSTOMER\_NAME,A.ACCOUNT\_NO,A.ACCOUNT\_TYPE, CASE WHEN A.INITIAL\_DEPOSIT = 20000 THEN 'HIGH' WHEN A.INITIAL\_DEPOSIT = 16000 THEN 'MODERATE' WHEN A.INITIAL\_DEPOSIT = 10000 THEN 'AVERAGE' WHEN A.INITIAL\_DEPOSIT = 5000 THEN 'LOW' WHEN A.INITIAL\_DEPOSIT = 0 THEN 'VERY LOW' ELSE 'INVALID' END AS DEPOSIT\_STATUS FROM ACCOUNT\_INFO A INNER JOIN CUSTOMER\_PERSONAL\_INFO B ON A.CUSTOMER\_ID=B.CUSTOMER\_ID ORDER BY INTEREST;

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.

<br/>Example, Assume Jack has savings account and his current interest amount is 10.00, then the new interest amount is 11.00 i.e (10 + (10 \* 10/100)).

"

Ans24) SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, A.ACCOUNT\_NO, A.ACCOUNT\_TYPE, B.BANK\_NAME, B.IFSC\_CODE, A.INITIAL\_DEPOSIT,

CASE ACCOUNT\_TYPE

WHEN 'SAVINGS' THEN ROUND((INTEREST+(INTEREST\*10/100)),2)

ELSE INTEREST END "NEW\_INTEREST"

FROM CUSTOMER\_PERSONAL\_INFO C

INNER JOIN ACCOUNT\_INFO A

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

INNER JOIN BANK\_INFO B

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

WHERE C.CUSTOMER\_NAME LIKE 'J%';

25.Write query to display the customer id, customer name, account no, initial deposit, tax percentage as calculated below.

<BR>Hint: <BR>If initial deposit = 0 then tax is '0%'<BR>If initial deposit &lt;= 10000 then tax is '3%'

<BR>If initial deposit &gt; 10000 and initial deposit &lt; 20000 then tax is '5%' <BR>If initial deposit &gt;= 20000 and

initial deposit&lt;=30000 then tax is '7%' <BR>If initial deposit &gt; 30000 then tax is '10%' <BR>Use the alias name 'taxPercentage'

Ans25) SELECT C.CUSTOMER\_ID, C.CUSTOMER\_NAME, A.ACCOUNT\_NO, A.INITIAL\_DEPOSIT,

CASE

WHEN INITIAL\_DEPOSIT=0 THEN '0%'

WHEN INITIAL\_DEPOSIT<=10000 THEN '3%'

WHEN INITIAL\_DEPOSIT>10000 AND INITIAL\_DEPOSIT<20000 THEN '5%'

WHEN INITIAL\_DEPOSIT>=20000 AND INITIAL\_DEPOSIT<=30000 THEN '7%'

WHEN INITIAL\_DEPOSIT>30000 THEN '10%' END "taxPercentage"

FROM CUSTOMER\_PERSONAL\_INFO C

JOIN ACCOUNT\_INFO A

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