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| **Practical-1** | |
| **1** | **Create tables according to the following definition.** |
|  | CREATE TABLE DEPOSIT (ACTNO VARCHAR2(5) , CNAME VARCHAR2(18) , BNAME VARCHAR2(18) , AMOUNT NUMBER(8,2) ,  ADATE DATE); |
|  | CREATE TABLE BRANCH  (BNAME VARCHAR2(18), CITY VARCHAR2(18)); |
|  | CREATE TABLE CUSTOMERS  (CNAME VARCHAR2(19) , CITY VARCHAR2(18)); |
|  | CREATE TABLE BORROW  (LOANNO VARCHAR2(5), CNAME VARCHAR2(18), BNAME VARCHAR2(18),  AMOUNT NUMBER (8,2)); |
| **2** | **Insert the data as shown below.** |
|  | INSERT INTO DEPOSIT VALUES('100',’ANIL’,'VRCE',1000,'1-MAR-95'); INSERT INTO DEPOSIT VALUES('101','SUNIL','AJNI',5000,'4-JAN-96');  INSERT INTO DEPOSIT VALUES('102','MEHUL','KAROLBAGH',3500,'17-NOV-95'); INSERT INTO DEPOSIT VALUES('104','MADHURI','CHANDI',1200,'17-DEC-95'); INSERT INTO DEPOSIT VALUES('105','PRMOD','M.G.ROAD',3000,'27-MAR-96'); INSERT INTO DEPOSIT VALUES('106','SANDIP','ANDHERI',2000,'31-MAR-96'); INSERT INTO DEPOSIT VALUES('107','SHIVANI','VIRAR',1000,'5-SEP-95'); INSERT INTO DEPOSIT VALUES('108','KRANTI','NEHRU PLACE',5000,'2-JUL-95');  INSERT INTO DEPOSIT VALUES('109','MINU','POWAI',7000,'10-AUG-95'); |
|  | INSERT INTO BRANCH VALUES('VRCE','NAGPUR'); INSERT INTO BRANCH VALUES('AJNI','NAGPUR'); INSERT INTO BRANCH VALUES('KAROLBAGH','DELHI'); INSERT INTO BRANCH VALUES('CHANDI','DELHI');  INSERT INTO BRANCH VALUES('DHARAMPETH','NAGPUR'); INSERT INTO BRANCH VALUES('M.G.ROAD','BANGLORE'); INSERT INTO BRANCH VALUES('ANDHERI','BOMBAY'); INSERT INTO BRANCH VALUES('VIHAR','BOMBAY'); INSERT INTO BRANCH VALUES('NEHRU PLACE','DELHI');  INSERT INTO BRANCH VALUES('POWAI','BOMBAY'); |
|  | INSERT INTO CUSTOMERS VALUES ('ANIL','CALCUTTA'); INSERT INTO CUSTOMERS VALUES ('SUNIL','DELHI'); INSERT INTO CUSTOMERS VALUES ('MEHUL','BARODA'); INSERT INTO CUSTOMERS VALUES ('MANDAR','PATNA'); INSERT INTO CUSTOMERS VALUES ('MADHURI','NAGPUR'); INSERT INTO CUSTOMERS VALUES ('PRAMOD','NAGPUR'); INSERT INTO CUSTOMERS VALUES ('SANDIP','SURAT'); INSERT INTO CUSTOMERS VALUES ('SHIVANI','BOMBAY'); INSERT INTO CUSTOMERS VALUES ('KRANTI','BOMBAY');  INSERT INTO CUSTOMERS VALUES ('NAREN','BOMBAY'); |
|  | INSERT INTO BORROW VALUES ('201','ANIL','VRCE',1000); INSERT INTO BORROW VALUES ('206','MEHUL','VRCE',5000);  INSERT INTO BORROW VALUES ('311','SUNIL','DHARAMPETH',3000); INSERT INTO BORROW VALUES ('321','MADHURI','ANDHERI',2000); INSERT INTO BORROW VALUES ('375','PRMOD','VIHAR',8000);  INSERT INTO BORROW VALUES ('481','KRANTI','NEHRU PLACE',3000); |

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| **3** | **Describe deposit, branch.** |
|  | DESC DEPOSIT;  DESC BRANCH; |
| **4** | **Describe borrow, customers.** |
|  | DESC BORROW;  DESC CUSTOMERS; |
| **5** | **List all data from table DEPOSIT.** |
|  | SELECT \* FROM DEPOSIT; |
| **6** | **List all data from table BORROW.** |
|  | SELECT \* FROM BORROW; |
| **7** | **List all data from table CUSTOMERS.** |
|  | SELECT \* FROM CUSTOMERS; |
| **8** | **List all data from table BRANCH.** |
|  | SELECT \* FROM BRANCH; |
| **9** | **Give account no and amount of depositors.** |
|  | SELECT ACTNO,AMOUNT FROM DEPOSIT; |
| **10** | **Give name of depositors having amount greater than 4000.** |
|  | SELECT CNAME FROM DEPOSIT WHERE AMOUNT >4000; |
| **11** | **Give name of customers who opened account after date '1-12-96'.** |
|  | SELECT CNAME FROM DEPOSIT WHERE DATE > ‘1-DEC-96’; |

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| **1** | **Create table STUDENT with the below given table structure.** |
|  | CREATE TABLE STUDENT  (ENROLLMENTNO VARCHAR2(10) PRIMARY KEY, NAME VARCHAR2(25),  CPI NUMBER(6,2), BIRTHDATE DATE); |
| **2** | **Create table EMPLOYEE with the below given table structure.** |
|  | CREATE TABLE EMPLOYEE  (EMPNO NUMBER(3), EMPNAME VARCHAR2(20), JOININGDATE DATE, SALARY NUMBER(8,2) CITY VARCHAR2(40)); |
| **3** | **Add two more column CITY varchar2(20) and PINCODE number(6) to STUDENT table .** |
|  | ALTER TABLE STUDENT ADD (CITY VARCHAR2(20),PINCODE NUMBER(6)); |
| **4** | **Change the data type of PINCODE column to varchar2(6).** |
|  | ALTER TABLE STUDENT MODIFY (PINCODE VARCHAR2(6)); |
| **5** | **Rename column PINCODE to PCODE in STUDENT table.** |
|  | ALTER TABLE STUDENT RENAME COLUMN PINCODE TO PCODE; |
| **6** | **Change the size of NAME column of student from 25 to 35.** |
|  | ALTER TABLE STUDENT MODIFY NAME VARCHAR2(35); |
| **7** | **Delete column PINCODE from the STUDENT table.** |
|  | ALTER TABLE STUDENT DROP COLUMN PINCODE; |
| 8 | **Change name of table STUDENT to STUDENT\_MASTER.** |
|  | RENAME STUDENT TO STUDENT\_MASTER; |

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| **9** | **Delete the table STUDENT.** |
|  | DROP TABLE STUDENT; |

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| **1** | **Insert the following records in the EMPLOYEE table.** |
|  | INSERT INTO EMPLOYEE (EMPNO,EMPNAME,JOINING\_DATE,SALARY,CITY) VALUES (101,’KEYUR’,’5-JAN-02’,12000,RAJKOT);  INSERT INTO EMPLOYEE (EMPNO,EMPNAME,JOINING\_DATE,SALARY,CITY) VALUES (102,’HARDIK’,’12-FEB-04’,14000,AHMEDABAD);  INSERT INTO EMPLOYEE (EMPNO,EMPNAME,JOINING\_DATE,SALARY,CITY) VALUES (103,’KAJAL’,’14-MAR-06’,15000,BARODA);  INSERT INTO EMPLOYEE (EMPNO,EMPNAME,JOINING\_DATE,SALARY,CITY) VALUES (104,’BHOOMI’,’23-JUN-05’,12500,AHMEDABAD);  INSERT INTO EMPLOYEE (EMPNO,EMPNAME,JOINING\_DATE,SALARY,CITY) VALUES (105,’HARDIK’,’15-FEB-04’,14000,RAJKOT); |
| **2** | **Insert the following records in the STUDENT table.** |
|  | INSERT INTO STUDENT (ENROLLMENTNO,PNAME,BIRTH\_DATE,CPI) VALUES (1105301106,’VIPUL’,’10-JAN-90’,7.5);  INSERT INTO STUDENT (ENROLLMENTNO,PNAME,BIRTH\_DATE,CPI) VALUES (1105301108,’MANAN’,’22-DEC-92’,7);  INSERT INTO STUDENT (ENROLLMENTNO,PNAME,BIRTH\_DATE,CPI) VALUES (1105301123,’KARTIK’,’3-SEP-89’,5.25);  INSERT INTO STUDENT (ENROLLMENTNO,PNAME,BIRTH\_DATE,CPI) VALUES (1105301145,’VIKRAM’,’5-JUN-94’,6);  INSERT INTO STUDENT (ENROLLMENTNO,PNAME,BIRTH\_DATE,CPI) VALUES (1105301189,’RAHUL’,’7-DEC-93’,4.5); |
| **3** | **Assign 5.5 as CPI to student with EnrollmentNo equal to 1105301189.** |
|  | UPDATE STUDENT SET CPI = 5.5 WHERE ENROLLMENTNO = 1105301189; |
| **4** | **Update city of all employee having Ahmedabad to Surat.** |
|  | UPDATE EMPLOYEE SET CITY = SURAT WHERE CITY = AHMEDABAD; |
| **5** | **Give 10% increment in salary to each employee.** |
|  | UPDATE EMPLOYEE SET SALARY =SALARY\*0.1+SALARY; |
| **6** | **Update city of EmpNo 1 to NULL.** |
|  | UPDATE EMPLOYEE SET CITY=NULL WHERE EMPNO=1; |
| **7** | **Delete the records of STUDENT table with CPI less than 6.** |
|  | DELETE FROM STUDENT WHERE CPI < 6; |
| **8** | **Delete all the records of EMPLOYEE table having salary less than or equal to 14000.** |
|  | DELETE FROM EMPLOYEE WHERE SALARY < = 14000; |
| **9** | **Delete all records from STUDENT table.** |
|  | TRUNCATE TABLE STUDENT; |

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| **1** | **List all record of STUDENT table.** |
|  | SELECT \* FROM STUDENT; |
| **2** | **Display all record of STUDENT with CPI more than 6.** |
|  | SELECT \* FROM STUDENT WHERE CPI > 6; |
| **3** | **Display EnrollmentNo and Name of STUDENT table.** |
|  | SELECT ENROLLMENTNO,NAME FROM STUDENT; |
| **4** | **Display Name and CPI of STUDENT with CPI more than 5.** |
|  | SELECT NAME,CPI FROM STUDENT WHERE CPI > 5; |
| **5** | **Find out the employee who does not belongs to ‘Baroda’ city.** |
|  | SELECT \* FROM EMPLOYEE WHERE CITY != ‘BARODA’; |
| **6** | **Display EnrollmentNo, Name and CPI of student in their alphabetical order of name.** |
|  | SELECT ENROLLMENTNO,NAME,CPI FROM STUDENT ORDER BY NAME; |
| **7** | **Rename column EnrollmentNo to ENO in the output.** |
|  | SELECT ENROLLMENTNO AS “ENO”,NAME FROM STUDENT; |
| **8** | **Display the employees having city name starting with ‘A’.** |
|  | SELECT EMPNO,NAME,SALARY,JOININGDATE,CITY FROM EMPLOYEE WHERE NAME LIKE ‘A%’; |
| **9** | **Display the employees whose name have ‘a’ as a second character.** |
|  | SELECT EMPNO,NAME,SALARY,JOININGDATE,CITY FROM EMPLOYEE WHERE NAME LIKE ‘\_A%’; |
| **10** | **Display the employees whose name consists of five characters.** |
|  | SELECT \* FROM EMPLOYEE WHERE NAME LIKE ‘ ’; |

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| **1** | **Create tables according to the following definition.** |
|  | CREATE TABLE JOB (JOB\_ID VARCHAR2(15), JOB\_TITLE VARCHAR2(30), MIN\_SAL NUMBER(7,2),  MAX\_SAL NUMBER(7,2)); |
|  | CREATE TABLE EMPLOYEE (EMP\_NO NUMBER(3), EMP\_NAME VARCHAR2(30), EMP\_SAL NUMBER(8,2), EMP\_COMM NUMBER(6,1) DEPT\_NO NUMBER(3),  JOB\_ID VARCHAR2(15)); |
|  | CREATE TABLE DEPOSIT  (A\_NO VARCHAR2(5), CNAME VARCHAR2(15), BNAME VARCHAR2(10), AMOUNT NUMBER(7,2),  A\_DATE DATE); |
|  | CREATE TABLE BORROW (LOANNO VARCHAR2(5), CNAME VARCHAR2(15), BNAME VARCHAR2(10), AMOUNT NUMBER (7,2)); |

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|  | CREATE TABLE DEPARTMENT (DEPT\_NO NUMBER(3),  DEPT\_NAME VARCHAR2(20), DEPT\_CITY VARCHAR2(40)); |
|  | CREATE EMPLOYEE\_MANAGER (EMP\_NO NUMBER(3), EMP\_HIREDATE DATE, MNG\_NO NUMBER(3),  MNG\_NAME VARCHAR2(40)); |
| **2** | **Insert the data as shown below.** |
|  | INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID) VALUES (101,’SMITH’,800, NULL,20,’ IT\_PROG’);  INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID) VALUES (102,’SNEHAL’,1600, 300,25, ‘MK\_MGR’);  INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID) VALUES (103,’ADAMA’,1100,0,20,‘MK\_MGR’);  INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID) VALUES (104,’AMAN’,3000, NULL,15,‘FI\_MGR’);  INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID) VALUES (105,’ANITA’,5000,50,000,10,‘FI\_ACC’);  INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID) VALUES (106,’SNEHA’,2450, 24,500,10, ‘LEC’);  INSERT INTO EMPLOYEE (EMP\_NO,EMP\_NAME,EMP\_SALARY,EMP\_COMM,DEPT\_NO,JOB\_ID)  VALUES (107,’ANAMIKA’,2975, NULL,30,‘LEC’); |
|  | INSERT INTO JOB (JOB\_ID,\_JOB\_NAME,MIN\_SAL,MAX\_SAL)  VALUES (‘IT\_PROG ’,’ Programmer’, 4000, 10000);  INSERT INTO JOB (JOB\_ID,\_JOB\_NAME,MIN\_SAL,MAX\_SAL)  VALUES (‘MK\_MGR’,’ Marketing manager’, 9000, 15000); INSERT INTO JOB (JOB\_ID,\_JOB\_NAME,MIN\_SAL,MAX\_SAL)  VALUES (‘FI\_MGR’,’Finance manager ’, 8200,12000);  INSERT INTO JOB (JOB\_ID,\_JOB\_NAME,MIN\_SAL,MAX\_SAL) VALUES (‘FI\_ACC’,’ Account’, 4200, 9000);  INSERT INTO JOB (JOB\_ID,\_JOB\_NAME,MIN\_SAL,MAX\_SAL) VALUES (‘LEC’,’ Lecturer’, 6000,17000);  INSERT INTO JOB (JOB\_ID,\_JOB\_NAME,MIN\_SAL,MAX\_SAL)  VALUES (‘COMP\_OP’,’ Computer Operator’,1500, 3000); |
|  | INSERT INTO DEPOSIT (A\_NO,CNAME,BNAME,AMOUNT,A\_DATE) VALUES (‘101’,’Anil’,’andheri’,7000,’01-jan-06’);  INSERT INTO DEPOSIT (A\_NO,CNAME,BNAME,AMOUNT,A\_DATE) VALUES (‘102’,’sunil’,’virar’,5000,’15-jul-06’);  INSERT INTO DEPOSIT (A\_NO,CNAME,BNAME,AMOUNT,A\_DATE)  VALUES (‘103’,‘jay’,’villeparle’,6500,’12-mar-06’);  INSERT INTO DEPOSIT (A\_NO,CNAME,BNAME,AMOUNT,A\_DATE)  VALUES (‘104’,‘vijay’,’andheri’, 8000,’17-sep-06’);  INSERT INTO DEPOSIT (A\_NO,CNAME,BNAME,AMOUNT,A\_DATE) VALUES (‘105’,’keyur’,’dadar’, 7500,’19-nov-06’);  INSERT INTO DEPOSIT (A\_NO,CNAME,BNAME,AMOUNT,A\_DATE) VALUES (‘106’,’Mayor’,’Borivali’, 5500,’21-dec-06’); |
|  | INSERT INTO DEPARTMENT (DEPT\_NO,DEPT\_NAME,DEPT\_CITY) VALUES (10,’COMPUTER’,’PUNE’);  INSERT INTO DEPARTMENT (DEPT\_NO,DEPT\_NAME,DEPT\_CITY) VALUES (15,’IT’,’BANGLORE’); |

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|  | INSERT INTO DEPARTMENT (DEPT\_NO,DEPT\_NAME,DEPT\_CITY) VALUES (20,’CIVIL’,’RAJKOT’);  INSERT INTO DEPARTMENT (DEPT\_NO,DEPT\_NAME,DEPT\_CITY) VALUES (25,’MECH’,’MANDVI’);  INSERT INTO DEPARTMENT (DEPT\_NO,DEPT\_NAME,DEPT\_CITY) VALUES (30,’ELECTRICAL’,’AHMEDABAD’); |
|  | INSERT INTO EMPLOYEE\_MANAGER (EMP\_N0,EMP\_HIREDATE,MNG\_NO,MNG\_NAME)  VALUES (101,’1-JAN-1991’,1,’ASHOK’);  INSERT INTO EMPLOYEE\_MANAGER (EMP\_N0,EMP\_HIREDATE,MNG\_NO,MNG\_NAME) VALUES (102,’10-AUG-1995’,2,’VIMAL’);  INSERT INTO EMPLOYEE\_MANAGER (EMP\_N0,EMP\_HIREDATE,MNG\_NO,MNG\_NAME) VALUES (103,’18-JUN-1999’,3,’HIRAL’);  INSERT INTO EMPLOYEE\_MANAGER (EMP\_N0,EMP\_HIREDATE,MNG\_NO,MNG\_NAME) VALUES (104,’21-JUL-2002’,4,’VIVEK’);  INSERT INTO EMPLOYEE\_MANAGER (EMP\_N0,EMP\_HIREDATE,MNG\_NO,MNG\_NAME) VALUES (105,’25-DEC-2008’,5,’HIREN’); |
| **3** | **Retrieve all data from employee, jobs and deposit.** |
|  | SELECT \* FROM EMPLOYEE;  SELECT \* FROM JOB; SELECT \* FROM DEPOSIT; |
| **4** | **Give details of account no. and deposited rupees of customers having account opened between dates 01-01-06 and 25-07-06.** |
|  | SELECT A\_NO,AMOUNT FROM DEPOSIT WHERE DATE BETWEEN ‘1-JAN-06’ AND ’25-JUL-06’; |
| **5** | **Display all jobs with minimum salary is greater than 4000.** |
|  | SELECT \* FROM JOB WHERE MIN\_SAL > 4000. |
| **6** | **Display name and salary of employee whose department no is 20. Give alias name to name of employee.** |
|  | SELECT EMP\_NAME AS “NAME”,EMP\_SAL FROM EMPLOYEE WHERE DEPT\_NO=20; |
| **7** | **Display employee no,name and department details of those employee whose department lies in(10,20)** |
|  | SELECT EMP\_NO,EMP\_NAME,DEPT\_NO FROM EMPLOYEE WHERE DEPT\_NO IN (10,20); |
| **8** | **Display all employee whose name start with ‘A’ and third character is ‘ ‘a’.** |
|  | SELECT \* FROM EMPLOYEE WHERE NAME LIKE ‘A\_a%’; |
| **9** | **Display name, number and salary of those employees whose name is 5 characters long And first three**  **characters are ‘Ani’.** |
|  | SELECT EMP\_NAME,EMP\_NO,EMP\_SAL FROM EMPLOYEE WHERE EMP\_NAME LIKE ‘Ani ’; |
| **10** | **Display the non-null values of employees and also employee name second character should be ‘n’ and string**  **should be 5 character long.** |
|  | SELECT \* FROM EMPLOYEE WHERE EMP\_COMM IS NOT NULL AND EMP\_NAME LIKE ‘\_n ’; |
| **11** | **Display the null values of employee and also employee name’s third character should be‘a’.** |
|  | SELECT \* FROM EMPLOYEE WHERE EMP\_COMM IS NULL AND EMP\_NAME LIKE ‘ a%’; |
| **12** | **What will be output if you are giving LIKE predicate as ‘%\\_%’ ESCAPE ‘\’** |
|  | SELECT \* FROM JOB WHERE JOB\_ID LIKE ‘%\\_%’ ESCAPE ‘\’; |

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| **1** | **Find maximum, minimum, total salary, average salary from EMPLOYEE table.** |
|  | SELECT AVG(SALARY),MAX(SALARY),MIN(SALARY),SUM(SALARY) FROM EMPLOYEE; |
| **2** | **Find total number of employee of EMPLOYEE table.** |
|  | SELECT COUNT("EMPNO")"NO OF EMPLOYEE" FROM EMPLOYEE; |
| **3** | **Display city with the total number of employees belonging to each city.** |
|  | SELECT CITY ,COUNT("EMPNO")"NO OF EMPLOYEE" FROM EMPLOYEE GROUP BY CITY; |

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| **4** | **Display city having more than one employee.** |
|  | SELECT CITY ,COUNT("EMPNO") FROM EMPLOYEE GROUP BY CITY HAVING COUNT(EMPNO)>1; |
| **5** | **Find out the employee who belongs to ‘Rajkot’ or ‘ Baroda’.** |
|  | SELECT \* FROM EMPLOYEE WHERE CITY=’RAJKOT’ OR CITY=’BARODA’; |
| **6** | **Display the employees having salary between 12000 and 15000.** |
|  | SELECT \* FROM EMPLOYEE WHERE SALARY BETWEEN 12000 AND 15000; |
| **7** | **Display the employees coming from city ‘Rajkot’ and ‘Baroda’ using set searching operator (IN).** |
|  | SELECT \* FROM EMPLOYEE WHERE CITY IN (RAJKOT,BARODA); |

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| **1** | **List total deposit from deposit.** |
|  | SELECT SUM (AMOUNT) FROM DEPOSIT; |
| **2** | **List total loan from karolbagh branch.** |
|  | SELECT SUM (AMOUNT) FROM BORROW WHERE BNAME='KAROLBAGH'; |
| **3** | **Give maximum loan from branch vrce.** |
|  | SELECT MAX (AMOUNT) FROM BORROW WHERE BNAME=’VRCE’; |
| **4** | **Count total number of customers.** |
|  | SELECT COUNT (CNAME) FROM CUSTOMERS; |
| **5** | **Count total number of customer’s cities.** |
|  | SELECT COUNT (DISTINCT CITY) FROM CUSTOMERS; |
| **6** | **Create table supplier from employee with all the columns.** |
|  | CREATE TABLE SUPPLIER AS SELECT \* FROM EMPLOYEE; |
| **7** | **Create table sup1 from employee with first two columns.** |
|  | CREATE TABLE SUP1 AS SELECT EMP\_NO,EMP\_NAME FROM EMPLOYEE; |
| **8** | **Create table sup2 from employee with no data.** |
|  | CREATE TABLE SUPPLIER AS SELECT \* FROM EMPLOYEE WHERE EMP\_NO=NULL; |
| **9** | **Insert the data into sup2 from employee whose second character should be ‘n’ and string should be**  **5 characters long in employee name field.** |
|  | INSERT INTO SUP2 (ACTNO) SELECT (EMP\_NO) FROM EMPLOYEE WHERE EMP\_NAME LIKE '\_a '; |
| **10** | **Delete all the rows from sup1.** |
|  | TRUNCATE TABLE SUP1; |
| **11** | **Delete the detail of supplier whose sup\_no is 103.** |
|  | DELETE FROM SUPPLIER WHERE SUP\_NO=103; |
| **12** | **Rename the table sup2.** |
|  | RENAME SUP2 TO SUP3; |
| **13** | **Destroy table sup1 with all the data.** |
|  | DROP TABLE SUP1; |
| **14** | **Update the value dept\_no to 10 where second character of emp. name is ‘m’.** |
|  | UPDATE EMPLOYEE SET DEPT\_NO=10 WHERE EMP\_NAME LIKE ‘\_m%’; |
| **15** | **Update the value of employee name to drshan whose employee number is 103.** |
|  | UPDATE EMPLOYEE SET EMP\_NAME=’DARSHAN’ WHERE EMP\_NO=103; |

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| **1** | **Write a query to display the current date. Label the column Date.** |
|  | SELECT SYSDATE AS "DATE" FROM DUAL; |
| **2** | **For each employee, display the employee number, salary, and salary increased by 15% and expressed as a**  **whole number. Label the column New Salary .** |
|  | SELECT EMP\_NO,EMP\_NAME,EMP\_SAL,EMP\_SAL+(EMP\_SAL\*15/100) "New Salary" FROM  EMPLOYEE; |
| **3** | **Modify your above query to add a column that subtracts the old salary from the new salary. Label the**  **column Increase.** |
|  | SELECT EMP\_NO,EMP\_NAME,EMP\_SAL,EMP\_SAL+(EMP\_SAL\*15/100) "New Salary",  (EMP\_SAL+(EMP\_SAL\*15/100))- EMP\_SAL "INCREASE" FROM EMPLOYEE; |
| **4** | **Write a query that displays the employee’s names with the first letter capitalized and all other letters lowercase, and the length of the names, for all employees whose name starts with J, A, or M. Give each**  **column an appropriate label. Sort the results by the employees’ names.** |
|  | SELECT INITCAP(EMP\_NAME) "Name", LENGTH(EMP\_NAME) "Length of Name" FROM EMPLOYEE  WHERE EMP\_NAME LIKE 'J%' OR EMP\_NAME LIKE 'A%' OR EMP\_NAME LIKE 'M%' ORDER BY EMP\_NAME; |
| **5** | **Write a query that produces the following for each employee: <employee name> earns <salary> monthly.** |
|  | SELECT EMP\_NAME ||' earns '||EMP\_SAL||' monthly' FROM EMPLOYEE; |
| **6** | **Display the system date in a format that appears as Seventh of June 1994 12:00:00 AM.** |
|  | SELECT TO\_CHAR(SYSDATE, 'fmDDTH') || ' of ' || TO\_CHAR(SYSDATE, 'fmMonth') || ', ' ||  TO\_CHAR(SYSDATE, 'YYYY') || ', ' || TO\_CHAR(SYSDATE, 'HH24:MI:SS AM') "DATE" FROM DUAL; |
| **7** | **Write a query to calculate the annual compensation of all employees (sal+comm.).** |
|  | SELECT EMP\_SAL+EMP\_COMM "COMPENSATION" FROM EMPLOYEE; |

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| **1** | **List total deposit of customer having account date after 1-jan-96.** |
|  | SELECT SUM(AMOUNT) FROM DEPOSIT WHERE ADATE >’ 1-jan-96’; |
| **2** | **List total deposit of customers living in city Nagpur.** |
|  | SELECT SUM(D.AMOUNT) FROM DEPOSIT D ,CUSTOMER C WHERE C.CITY=’NAGPUR’ AND  C.CNMAE=D.CNAME; |
| **3** | **List maximum deposit of customers living in bombay.** |
|  | SELECT MAX(D.AMOUNT) FROM DEPOSIT D,CUSTOMER C WHERE C.CITY=’BOMBAY’ AND  C.CNMAE=D.CNAME; |
| **4** | **Display the highest, lowest, sum, and average salary of all employees. Label the columns Maximum,**  **Minimum, Sum, and Average, respectively.** |
|  | SELECT MAX (EMP\_SAL) “MAXIMUM” ,MIN(EMP\_SAL) “MINIMUM”,SUM (EMP\_SAL) “SUM”,  AVG (EMP\_SAL) “AVERAGE” FROM EMPLOYEE; |
| **5** | **Write a query that displays the difference between the highest and lowest salaries. Label the column**  **DIFFERENCE.** |
|  | SELECT MAX(EMP\_SAL)-MIN(EMP\_SAL) "DIFFERENCE" FROM EMPLOYEE; |
| **6** | **Create a query that will display the total number of employees** |
|  | SELECT COUNT (EMP\_NO) FROM EMPLOYEE; |
| **7** | **Find the average salaries for each department without displaying the respective department numbers.** |
|  | SELECT AVG(EMP\_SAL) FROM EMPLOYEE GROUP BY DEPT\_NO; |
| **8** | **Write a query to display the total salary being paid to each department.** |
|  | SELECT DEPT\_NO,SUM(EMP\_SAL) FROM EMPLOYEE GROUP BY DEPT\_NO; |

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| **9** | **Find the average salaries > 2000 for each department without displaying the respective department numbers.** |
|  | SELECT AVG(EMP\_SAL) FROM EMPLOYEE GROUP BY DEPT\_NO HAVING AVG(EMP\_SAL) > 2000; |
| **10** | **Display the total salary for each department with a total salary amount exceeding 3000 and sorts the list by**  **the total salary.** |
|  | SELECT DEPT\_NO,SUM(EMP\_SAL) FROM EMPLOYEE GROUP BY DEPT\_NO HAVING SUM(EMP\_SAL)  > 3000 ORDER BY SUM(EMP\_SAL); |
| **11** | **List the branches having sum of deposit more than 5000 and located in city Bombay.** |
|  | SELECT D.BNAME FROM DEPOSIT D , BRANCH B WHERE D.BNAME=B.BNAME AND  B.CITY=’BOMBAY’ GROUP BY D.BNAME HAVING SUM(D.AMOUNT) > 5000; |

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| **1** | **Find out the absolute value of -25, 25, -50 and 50.** |
|  | SELECT ABS(-25),ABS(25),ABS(-50),ABS(50)FROM DUAL; |
| **2** | **Find smallest integer value that is greater than or equal to 25.2, 25.7 and -25.2.** |
|  | SELECT CEIL(25.2),CEIL(25.7),CEIL(-25.2) FROM DUAL; |
| **3** | **Find largest integer value that is smaller than or equal to 25.2, 25.7 and -25.2.** |
|  | SELECT FLOOR(25.2),FLOOR(25.7),FLOOR(-25.2) FROM DUAL; |
| **4** | **Find out remainder of 5 divided 2 and 5 divided by 3.** |
|  | SELECT MOD(5,2), MOD(5,3) FROM DUAL; |
| **5** | **Find out value of 3 raised to 2nd power and 4 raised 3rd power.** |
|  | SELECT POWER(3,2), POWER(4,3) FROM DUAL; |
| **6** | **Find out the square root of 25, 30 and 50.** |
|  | SELECT SQRT(25),SQRT(30),SQRT(50) FROM DUAL; |
| **7** | **Find out round value of 157.732 for 2, 0 and -2 decimal points.** |
|  | SELECT ROUND(157.732,2),ROUND(157.732,0),ROUND(157.732,-2) FROM DUAL; |
| **8** | **Find out truncated value of 157.732 for 2, 0 and -2 decimal points.** |
|  | SELECT TRUNC(157.732,2),TRUNC(157.732,0),TRUNC(157.732,-2) FROM DUAL; |
| **9** | **Find out exponential value of 2 and 3.** |
|  | SELECT EXP(2),EXP(5) ”EXPONENT” FROM DUAL; |
| **10** | **Find out logarithm having base e of 10 and 2.** |
|  | SELECT LN(2) , LN(100) NATURAL\_LOG FROM DUAL; |
| **11** | **Find out logarithm having base b having value 10 of 5 and 100.** |
|  | SELECT LOG(10,5), LOG(10,100) FROM DUAL; |
| **12** | **Find sine, cosine, tangent, hyperbolic sine, hyperbolic cosine and hyperbolic tangent of 3.1415.** |
|  | SELECT SIN(3.1415) , SINH(3.1415),COS(3.1415),COSH(3.1415),TAN(3.1415),TANH(3.1415) FROM DUAL; |
| **13** | **Find sign of -25, 0 and 25.** |
|  | SELECT SIGN(-25),SIGN(25),SIGN(0) FROM DUAL; |

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| **1** | **Write a query to display the name of current user.** |
|  | SELECT USER FROM DUAL; |
| **2** | **Write a query to display the current date.** |
|  | SELECT SYSDATE FROM DUAL; |
| **3** | **Create table as per following.** |
|  | CREATE TABLE CRICKET (NAME VARCHAR2(20), CITY CHAR(20));  INSERT INTO CRICKET (NAME,CITY) VALUES (‘Sachin Tendulkar’,’ Mumbai’); INSERT INTO CRICKET (NAME,CITY) VALUES (‘Rahul Dravid’,’ BOMBAY’); INSERT INTO CRICKET (NAME,CITY) VALUES (‘M S DHONI’,’ Jharkhand’);  INSERT INTO CRICKET (NAME,CITY) VALUES (‘Suresh raina’,’ India’); |
| **4** | **Find out length of name and city column.** |
|  | SELECT NAME,CITY, LENGTH(NAME) , LENGTH(CITY) FROM CRICKET; |
| **5** | **List out entire content of above table in lower case letter.** |
|  | SELECT LOWER(NAME),LOWER(CITY) FROM CRICKET; |
| **6** | **List out entire content of above table in upper case letter.** |
|  | SELECT UPPER(NAME),UPPER(CITY) FROM CRICKET; |
| **7** | **List out entire content of above table in such a way that first letter in upper case and all other letter in lower**  **case.** |
|  | SELECT INITCAP(NAME),INITCAP(CITY) FROM CRICKET; |
| **8** | **Display 3rd to 10th character of name column.** |
|  | SELECT SUBSTR(NAME,3,8) FROM CRICKET; |
| **9** | **Display city with \* in left side of remaining size.** |
|  | SELECT CITY LPAD(CITY,20,’\*’)RESULT FROM CRICKET; |
| **10** | **Display city with \* in right side of remaining size.** |
|  | SELECT CITY RPAD(CITY,20,’\*’)RESULT FROM CRICKET; |
| **11** | **Write a query to convert ‘Sumita’ to ‘mita’ using LTRIM.** |
|  | SELECT LTRIM(‘SUMITA’,’SU’) FROM DUAL; |
| **12** | **Write a query to convert ‘Sumita’ to ‘Sumi’ using RTRIM.** |
|  | SELECT RTRIM(‘SUMITA’,’TA’) FROM DUAL; |
| **13** | **Write queries to convert ‘abc12efg3’ to ‘abcXYefgZ’ using TRANSLATE.** |
|  | SELECT TRANSLATE(‘ABC12EFG3’,’123’,’XYZ’) FROM DUAL; |
| **14** | **Write a query to convert ‘abc123efg’ to ‘abcXYZefg’ using REPLACE.** |
|  | SELECT REPLACE(‘ABC123EFG’,’123’,’XYZ’) FROM DUAL; |
| **15** | **Write a query to display ascii code for ‘a’,’A’,’z’,’Z’,0,9.** |
|  | SELECT ASCII(‘a’),ASCII(‘A’),ASCII(‘z’),ASCII(‘Z’) ASCII(0),ASCII(9) FROM DUAL; |
| **16** | **Write a query to convert a string ‘1234.56’ to number.** |
|  | SELECT TO\_NUMBER(‘1234.56’) FROM DUAL; |
| **17** | **Write a query to number 123456 to character as 01,23,456.** |
|  | SELECT TO\_CHAR(123456,’09,99,999’)FROM DUAL; |
| **18** | **Write a query to convert current date to character in 31 December, 2008 and 31 Dec 2008 formats.** |
|  | SELECT TO\_CHAR(SYSDATE,'DD MONTH,YYYY'),TO\_CHAR(SYSDATE) FROM DUAL; |

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| **19** | **Write a query to find new date after 365 day after today.** |
|  | SELECT SYSDATE +365 FROM DUAL; |
| **20** | **Write a query to find out no of months between 31-mar-09 and 31-dec-08 as well as 31-mar-09 and**  **18-dec-08.** |
|  | SELECT MONTHS\_BETWEEN('31 MAR 2009' ,'31 DEC 2008'), MONTHS\_BETWEEN  ('31 MAR 2009','15 DEC 2008') FROM DUAL; |
| **21** | **Write a query to find out last date of jun-11, feb-08 and dec-07.** |
|  | SELECT LAST\_DAY('11 JUN 2013'),LAST\_DAY('08 FEB 2013'), LAST\_DAY('07 DEC 2013') FROM DUAL; |
| **22** | **Write a query to find out integer value corresponding to the user id of user currently logged in.** |
|  | SELECT UID FROM DUAL; |
| **23** | **Write a query to find out largest value from 11,32,7 and ‘11’,’7’,’32’.** |
|  | SELECT GREATEST(11,32,7),GREATEST('11','7','32') FROM DUAL; |
| **24** | **Write a query to find out smallest value from 11,32,7 and ‘11’,’7’,’32’.** |
|  | SELECT LEAST(11,32,7),LEAST('11','7','32') FROM DUAL; |
| **25** | **Write a query for NVL function.** |
|  | SELECT EMP\_NO,EMP\_NAME,EMP\_SAL,EMP\_COMM,NVL(EMP\_SAL,0) FROM EMPLOYEE; |
| **26** | **Write a query for decode function.** |
|  | SELECT EMP\_NO,EMP\_NAME,DEPT\_NO DECODE (DEPT\_NO, 10 , ‘COMPUTER’,’CIVIL’); |
| **27** | **Write a query to find storage size of 25, ‘india’ and 31-dec-08.** |
|  | SELECT VSIZE(25),VSIZE('INDIA'),VSIZE('31-DEC-08') FROM DUAL; |

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| **1** | **Create two different tables as per following schema.** |
|  | CREATE TABLE FYRANKER ( ROLL\_NO NUMBER (5), NAME VARCHAR2(20),  SPI NUMBER (6,2));  INSERT INTO FYRANKER (ROLL\_NO,NAME,SPI) VALUES (101,’Ajay’,9.95);  INSERT INTO FYRANKER (ROLL\_NO,NAME,SPI) VALUES (109,’Haresh’,8.80);  INSERT INTO FYRANKER (ROLL\_NO,NAME,SPI) VALUES (115,’Manish’,7.01);  CREATE TABLE SYRANKER( ROLL\_NO NUMBER (5), NAME VARCHAR2(20),  SPI NUMBER (6,2));  INSERT INTO SYRANKER (ROLL\_NO,NAME,SPI) VALUES (101,’Ajay’,9.96);  INSERT INTO SYRANKER (ROLL\_NO,NAME,SPI) VALUES (109,’Mahesh’,8.15);  INSERT INTO SYRANKER (ROLL\_NO,NAME,SPI)  VALUES (115,’Manish’,7.10); |

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| **2** | **Display name of students who is ranker in either FY or SY.** |
|  | SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER); UNION  SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER); |
| **3** | **Display name of students who is ranker in either FY or SY including duplicate data.** |
|  | SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER); UNION ALL  SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER); |
| **4** | **Display name of students who is ranker in either FY or SY having SPI more than 8.** |
|  | SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER) AND SPI > 8; INTERSECT  SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER) AND SPI > 8; |
| **5** | **Display name of students who is ranker in both FY and SY.** |
|  | SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER); MINUS  SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER); |
| **6** | **Display name of students who is ranker in both FY and SY having SPI more than 8.** |
|  | SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER) AND SPI > 8;  INTERSECT  SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER) AND SPI > 8; |
| **7** | **Display name of students who is ranker in FY but not in SY.** |
|  | SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER); MINUS  SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER); |
| **8** | **Display name of students who is ranker in SY but not in FY.** |
|  | SELECT NAME FROM SYRANKER WHERE SPI=(SELECT MAX(SPI)FROM SYRANKER); INTERSECT  SELECT NAME FROM FYRANKER WHERE SPI=(SELECT MAX(SPI)FROM FYRANKER); |

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| **1** | **Give 10% interest to all depositors.** |
|  | UPDATE DEPOSIT SET AMOUNT = AMOUNT + (AMOUNT\*10/100); |
| **2** | **Give 10% interest to all depositors having branch vrce** |
|  | UPDATE DEPOSIT SET AMOUNT = AMOUNT + (AMOUNT\*10/100) WHERE BNAME =’vrce’; |
| **3** | **Give 10% interest to all depositors living in nagpur and having branch city bombay.** |
|  | UPDATE DEPOSIT SET AMOUNT = AMOUNT + (AMOUNT\*10/100) WHERE CNAME IN (SELECT CNAME FROM CUSTOMERS WHERE CITY=’NAGPUR’) AND BNAME IN(SELECT BNAME FROM  BRANCH WHERE CITY=’BOMBAY’); |
| **4** | **Transfer 10 Rs from account of anil to sunil if both are having same branch.** |
|  | UPDATE DEPOSIT SET AMOUNT =AMOUNT -10 WHERE CNAME =’ANIL’ AND BNAME IN (SELECT D1.BNAME FROM DEPOSIT D1 WHERE D1.CNAME=’SUNIL’ );  UPDATE DEPOSIT SET AMOUNT=AMOUNT+10 WHERE CNAME=’SUNIL’  AND BNAME IN (SELECT D2.BNAME FROM DEPOSIT D2 WHERE D2.CNAME=’ANIL’ ); |
| **5** | **Give 100 Rs more to all depositors if they are maximum depositors in their respective branch.** |
|  | UPDATE DEPOSIT SET AMOUNT = AMOUNT + 100 WHERE CNAME IN (SELECT D1.CNAME FROM DEPOSIT D1 GROUP BY D1.BNAME HAVING AVG(D1.AMOUNT) > = ALL (SELECT MAX(D2.AMOUNT) FROM DEPOSIT D2 WHERE D1.BNAME = D2.BNAME GROUP BY D2.BNAME)); |

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| **6** | **Delete depositors of branches having number of customers between 1 to 3.** |
|  | DELETE FROM DEPOSIT WHERE CNAME IN (SELECT D1.CNAME FROM DEPOSIT D1 GROUP BY  D1.BNAME HAVING COUNT(D1.CNAME) BETWEEN 1 AND 3); |
| **7** | **Delete deposit of vijay.** |
|  | DELETE FROM DEPOSIT WHERE CNAME=’VIJAY’; |
| **8** | **Delete borrower of branches having average loan less than 1000.** |
|  | DELETE FROM BORROW WHERE CNAME IN (SELECT B.CNAME FROM BORROW B GROUP BY B.BNAME HAVING AVG(B.AMOUNT)< 1000); |

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| **1** | **Write a query to display the name of any employee in the same department as SCOTT. Exclude SCOTT** |
|  | SELECT EMP\_NAME FROM EMPLOYEE WHERE DEPT\_NO = SELECT DEPT\_NO FROM EMPLOYEE  WHERE EMP\_NAME LIKE ‘SCOTT’ AND EMP\_NAME <> ‘SCOTT’; |
| **2** | **Give name of customers who are depositors having same branch city of mr. sunil.** |
|  | SELECT D1.CNAME FROM DEPOSIT D1 BRANCH B2 D1.BNAME AND B2.CITY IN (SELECT B1.CITY  FROM DEPOSIT D2 BRANCH B1 WHERE D2.CNAME=’ANIL’ AND D2.BNAME=B1.BNAME); |
| **3** | **Give deposit details and loan details of customer in same city where pramod is living.** |
|  | SELECT D1.ACTNO,D1.BNAME,D1.AMOUNT,D1.ADATE ,BR1.LOANNO,BR1.BNAME BR1.AMOUNT FROM DEPOSIT D1 BORROW BR1 CUSTOMER C1 WHERE C1.CNAME = D1.CNAME AND D1.CNAME=BR1.CNAME AND C1.CITY IN (SELECT C2.CITY FROM CUSTOMER C2 WHERE C2.CNAME=’PRAMOD’); |
| **4** | **Create a query to display the employee numbers and names of all employees who earn more than the average**  **salary. Sort the results in ascending order of salary.** |
|  | SELECT EMP\_NO,EMP\_NAME FROM EMPLOYEE WHERE EMP\_SAL > (SELECT AVG(EMP\_SAL) FROM  EMPLOYEE ORDER BY EMP\_SAL); |
| **5** | **Give names of depositors having same living city as mr. anil and having deposit amount greater than 2000.** |
|  | SELECT D1.CNAME FROM DEPOSIT D1,CUSTOMER C1 WHERE D1.AMOUNT > 2000 D1.CNAME=C1.CNAME AND C1.CITY IN (SELECT C2.CITY FROM CUSTOMER C2 WHERE  C2.CNAME=’ANIL’); |
| **6** | **Display the department number, name, and job for every employee in the Accounting department.** |
|  | SELECT D.DEPT\_NO,D.DEPT\_NAME,E.JOB\_ID FROM DEPARTMENT D,EMPLOYEE E WHERE  D.DEPT\_NO=E.DEPT\_NO AND D.DEPT\_NAME =’ACCOUNTING’; |
| **7** | **List the name of branch having highest number of depositors.** |
|  | SELECT D1.BNAME FROM DEPOSIT D1 GROUP BY D1.BNAME HAVING COUNT(D1.CNAME) > = ALL  (SELECT COUNT (D2.CNAME) FROM DEPOSIT D2 GROUP BY D2.BNAME); |
| **8** | **Give the name of cities in which the maximum numbers of branches are located.** |
|  | SELECT B1.CITY FROM BRANCH B1 GROUP BY B1.CITY HAVING COUNT (B1.BNAME) > ALL  (SELECT COUNT(B2.BNAME) FROM BRANCH B2 WHERE B1.CITY = B2.CITY GROUP BY B2.CITY); |
| **9** | **Give name of customers living in same city where maximum depositors are located.** |
|  | SELECT C1.NAME FROM CUSTOMER C1 WHERE C1.CITY IN (SELECT C2.CITY FROM DEPOSIT D1,CUSTOMER C2 WHERE C2.CNAME = D1.CNAME) GROUP BY C2.CITY HAVING COUNT (D1.CNAME) > ALL (SELECT COUNT(D2.CNAME) FROM DEPOSIT D2 CUSTOMER C3 WHERE  D2.CNAME = C3.CNAME GROUP BY C3.CITY)); |

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| **1** | **Give details of customers ANIL.** |
|  | SELECT D1.ACTNO,D1.BNAME,D1.AMOUNT,D1.ADATE ,C1.CITY,B1.CITY FROM DEPOSIT D1,CUSTOMER C1, BRANCH B1 WHERE D1.CNAME=C1.CNAME AND D1.BNAME=B1.BNAME AND  D1.CNAME=’ANIL’; |
| **2** | **Give name of customer who are borrowers and depositors and having living city Nagpur.** |
|  | SELECT C1.CNAME FROM CUSTOMER C1,DEPOSIT D1,BORROW B1 WHERE C1.CITY=’NAGPUR’  AND C1.CNAME=D1.CNAME AND D1.CNAME = B1.CNAME; |
| **3** | **Give city as their city name of customers having same living branch.** |
|  | SELECT C.CITY FROM CUSTOMER C,BRANCH B WHERE C.CITY=B.CITY; |
| **4** | **Write a query to display the last name, department number, and department name for all employees.** |
|  | SELECT E.ENAME ,E.DEPT\_NO ,D.DEPT\_NAME FROM EMPLOYEE E,DEPT DWHERE  E.DEPT\_NO=D.DEPT\_NO; |
| **5** | **listing of all jobs that are in department 30. Include the location of the department in the output.** |
|  | SELECT J.JOB\_ID,J.JOB\_TITLE,E.DEPT\_NO,D.DEPT\_CITY FROM JOB J,EMPLOYEE E,DEPARTMENT D  WHERE J.JOB\_ID=E.JOB\_ID AND E.DEPT\_NO=E.DEPT\_NO AND E.DEPT\_NO=30; |
| **6** | **Write a query to display the employee name, department number, and department name for all employees**  **who work in NEW YORK.** |
|  | SELECT E.EMP\_NAME,D.DEPT\_NO,D.DEPT\_NAME FROM EMPLOYEE E,DEPARTMENT D WHERE  E.DEPT\_NO=D.DEPT\_NO AND D.DEPT\_CITY=’NEW YORK’; |
| **7** | **Display the employee name and employee number along with their manager’s name and manager number.**  **Label the columns Employee, Emp#, Manager, and Mgr#, respectively.** |
|  | SELECT E.EMP\_NAME”EMPLOYEE”,E.EMP\_NO”EMP#”,EM.MNG\_NAME”MANAGER”,EM.MNG\_NO  ”MGR#” FROM EMPLOYEE E EMPLOYEE\_MANAGER EM WHERE E.EMP\_NO=EM.EMP\_NO; |
| **8** | **Create a query to display the name and hire date of any employee hired after employee SCOTT.** |
|  | SELECT E.EMP\_NAME,EM.EMP\_HIREDATE FROM EMPLOYEE E,EMPLOYEE\_MANAGER EM WHERE  E.EMP\_NO=EM.EMP\_NO AND EM.EMP\_HIREDATE > (SELECT EMP\_HIREDATE FROM EMPLOYEE\_MANAGER WHERE EMP\_NAME=’SCOTT’ ; |

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| **1** | **Create tables as per following** |
|  | CREATE TABLE STUDENT (RNO NUMBER(5),  NAME VARCHAR2(20), BRANCH VARCHAR2(20));  INSERT INTO STUDENT (RNO,NAME,BRANCH) VALUES (101,’RAJU’,’CE’); INSERT INTO STUDENT (RNO,NAME,BRANCH) VALUES (102,’AMIT’,’CE’); INSERT INTO STUDENT (RNO,NAME,BRANCH) VALUES (103,’SANJAY’,’ME’); INSERT INTO STUDENT (RNO,NAME,BRANCH) VALUES (104,’NEHA’,’EC’); INSERT INTO STUDENT (RNO,NAME,BRANCH) VALUES (105,’MEERA’,’EE’); INSERT INTO STUDENT (RNO,NAME,BRANCH) VALUES (106,’MAHESH’,’ME’);  CREATE TABLE RESULT (RNO NUMBER(5),  SPI NUMBER(5,2)); |

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|  | INSERT INTO RESULT (RNO,SPI) VALUES (101,8.8); INSERT INTO RESULT (RNO,SPI) VALUES (102,9.2); INSERT INTO RESULT (RNO,SPI) VALUES (103,7.6); INSERT INTO RESULT (RNO,SPI) VALUES (104,8.2);  INSERT INTO RESULT (RNO,SPI) VALUES (105,7); INSERT INTO RESULT (RNO,SPI) VALUES (101,8.9); |
| **2** | **Combine information from student and result table using cross join or Cartesian product.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.RESULT FROM STUDENT S,RESULT R ; |
| **3** | **Display Rno, Name, Branch and SPI of all students.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.SPI, FROM STUDENT S FULL OUTER JOIN RESULT R ON  S.RNO=R.RNO; |
| **4** | **Display Rno, Name, Branch and SPI of CE branch’s student only.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.SPI, FROM STUDENT S FULL OUTER JOIN RESULT R ON  S.RNO=R.RNO WHERE S.BRANCH=’CE’; |
| **5** | **Display Rno, Name, Branch and SPI of other than EC branch’s student only.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.SPI, FROM STUDENT S FULL OUTER JOIN RESULT R ON  S.RNO=R.RNO WHERE S.BRANCH !=’EC’; |
| **6** | **Display average result of each branch.** |
|  | SELECT R.AVG(SPI),S.BRANCH FROM STUDENT S,RESULT R WHERE S.RNO=R.RNO GROUP BY  S.BRANCH; |
| **7** | **Display average result of each branch and sort them in ascending order by SPI.** |
|  | SELECT R.AVG(SPI),S.BRANCH FROM STUDENT S,RESULT R WHERE S.RNO=R.RNO GROUP BY  S.BRANCH ORDER BY R.SPI; |
| **8** | **Display average result of CE and ME branch.** |
|  | SELECT R.AVG(SPI),S.BRANCH FROM STUDENT S,RESULT R WHERE S.RNO=R.RNO AND  S.BRANCH =’CE’ AND S.BRANCH=’ME’ GROUP BY S.BRANCH; |
| **9** | **Perform the left outer join on Student and Result tables.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.SPI FROM STUDENT S LEFT OUTER JOIN RESULT R ON  S.RNO=R.RNO; |
| **10** | **Perform the right outer join on Student and Result tables.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.SPI FROM STUDENT S RIGHT OUTER JOIN RESULT R ON  S.RNO=R.RNO; |
| **11** | **Perform the full outer join on Student and Result tables.** |
|  | SELECT S.RNO,S.NAME,S.BRANCH,R.SPI, FROM STUDENT S FULL OUTER JOIN RESULT R ON  S.RNO=R.RNO; |