1) Create 3 tables with following schema

a) create table employee(empid int primary key,empname varchar(100), department varchar(50),contactno bigint, emaildid varchar(100), empheadid int)

USE students;

CREATE TABLE EMPLOYEE1(

EMPID INT(3),EMPNAME VARCHAR(100),DEPARTMENT VARCHAR(100),CONTACTNO BIGINT(50),EMAILDID VARCHAR(100),EMPHEADID INT(10),

CONSTRAINT pk primary key (empid)

);

INSERT INTO EMPLOYEE1 VALUES(2,"Parag","IT",1234567890,"abc@gmail.com",123);

INSERT INTO EMPLOYEE1 VALUES(4,"Rahul","IT",1234567890,"abc@gmail.com",124);

INSERT INTO EMPLOYEE1 VALUES(7,"Rohit","CSE",8764898954,"def@gmail.com",125);

INSERT INTO EMPLOYEE1 VALUES(9,"Ram","DS",7767738848,"123@yahoo.com",126);

INSERT INTO EMPLOYEE1 VALUES(10,"Renuka","DS",8894567890,"999@gmail.com",127);

INSERT INTO EMPLOYEE1 VALUES(11,"Praveen","IT",7894567890,"abcd@gmail.com",128);

INSERT INTO EMPLOYEE1 VALUES(12,"Ravi","IT",6784567890,"abcc@gmail.com",129);

INSERT INTO EMPLOYEE1 VALUES(13,"Rakesh","CSE",4564898954,"ddef@gmail.com",130);

INSERT INTO EMPLOYEE1 VALUES(14,"Karthick","DS",8907738848,"1123@yahoo.com",131);

INSERT INTO EMPLOYEE1 VALUES(15,"Vijay","DS",9894567890,"9999@gmail.com",132);

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 |

b) create table empdept(deptid varchar(50) primary key,deptname varchar(100), dept\_off varchar(100), depthead int)

CREATE TABLE EMPDEPT3(

DEPTID VARCHAR(50),DEPTNAME VARCHAR(100),DEPT\_OFF VARCHAR(100),DEPTHEAD VARCHAR(100),

CONSTRAINT pk primary key (deptid)

);

INSERT INTO EMPDEPT3 VALUES("IT03","IT","NAMPALLY","HYD");

INSERT INTO EMPDEPT3 VALUES("IT04","IT","MONIKONDA","HYD");

INSERT INTO EMPDEPT3 VALUES("DS01","DS","KUKATPALLY","HYD");

INSERT INTO EMPDEPT3 VALUES("DS02","DS","RANGAREDDY","RR");

INSERT INTO EMPDEPT3 VALUES("DS03","DS","SECUNDERABAD","SEC");

INSERT INTO EMPDEPT3 VALUES("IT05","IT","NAMPALLY","HYD");

INSERT INTO EMPDEPT3 VALUES("IT06","IT","MONIKONDA","HYD");

INSERT INTO EMPDEPT3 VALUES("DS04","DS","KUKATPALLY","HYD");

INSERT INTO EMPDEPT3 VALUES("DS05","DS","RANGAREDDY","RR");

INSERT INTO EMPDEPT3 VALUES("DS06","DS","SECUNDERABAD","SEC");

Answer:

|  |  |  |  |
| --- | --- | --- | --- |
| DEPTID | DEPTNAME | DEPT\_OFF | DEPTHEAD |
| IT03 | IT | NAMPALLY | HYD |
| IT04 | IT | MONIKONDA | HYD |
| DS01 | DS | KUKATPALLY | HYD |
| DS02 | DS | RANGAREDDY | SR |
| DS03 | DS | SECUNDERABAD | SEC |
| IT05 | IT | NAMPALLY | HYD |
| IT06 | IT | MONIKONDA | HYD |
| DS04 | DS | KUKATPALLY | HYD |
| DS05 | DS | RANGAREDDY | SR |
| DS06 | DS | SECUNDERABAD | SEC |

c) create table empsalary(empid int foreign key references employee(empid), salary bigint, ispermanent varchar(3))

CREATE TABLE EMPSALARY1(

EMPID INT(50),SALARY INT(50),ISPERMANENT VARCHAR(100),

FOREIGN KEY (EMPID) REFERENCES EMPLOYEE(EMPID)

);

INSERT INTO EMPSALARY1 VALUES(2,20000,"YES");

INSERT INTO EMPSALARY1 VALUES(4,30000,"YES");

INSERT INTO EMPSALARY1 VALUES(7,40000,"YES");

INSERT INTO EMPSALARY1 VALUES(9,20000,"NO");

INSERT INTO EMPSALARY1 VALUES(10,20000,"YES");

INSERT INTO EMPSALARY1 VALUES(12,20000,"YES");

INSERT INTO EMPSALARY1 VALUES(13,40000,"YES");

INSERT INTO EMPSALARY1 VALUES(14,20000,"NO");

INSERT INTO EMPSALARY1 VALUES(15,50000,"YES");

INSERT INTO EMPSALARY1 VALUES(15,20000,"YES");

Answer:

|  |  |  |
| --- | --- | --- |
| EMPID | SALARY | ISPERMANENT |
| 2 | 20000 | YES |
| 4 | 30000 | YES |
| 7 | 40000 | YES |
| 9 | 20000 | NO |
| 10 | 20000 | YES |
| 12 | 20000 | YES |
| 13 | 40000 | YES |
| 14 | 20000 | NO |
| 15 | 50000 | YES |
| 15 | 20000 | YES |

Insert the suitable data in all 3 tables with at least 10 records each.

2) Write queries for following

a) Select the detail of the employee whose name start with P.(hint use like)

SELECT \* FROM EMPLOYEE1

WHERE EMPNAME LIKE "P%";

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 |

b) How many permanent candidates earn more than 5000.

SELECT \* FROM EMPSALARY1

WHERE SALARY > 5000 AND ISPERMANENT = "YES";

|  |  |  |
| --- | --- | --- |
| EMPID | SALARY | ISPERMANENT |
| 2 | 20000 | YES |
| 4 | 30000 | YES |
| 7 | 40000 | YES |
| 10 | 20000 | YES |
| 12 | 20000 | YES |
| 13 | 40000 | YES |
| 15 | 50000 | YES |
| 15 | 20000 | YES |

c) Select the details of the employee whose emailId is in gmail.

SELECT \* FROM EMPLOYEE1

WHERE EMAILDID LIKE "%gmail.com";

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEAD  ID |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 |

3) a) What is the total salary that is paid to permanent employees?

SELECT SUM(SALARY) FROM EMPSALARY1

WHERE ISPERMANENT="YES";

Answer:

|  |
| --- |
| SUM(SALARY) |
| 240000 |

b) List name of all employees whose name ends with a.

SELECT \* FROM EMPLOYEE1

WHERE EMPNAME LIKE "%A";

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 |

4) Nested Queries

a) Select the name of the employee who is working under Abhishek.

b) Select the name of the employee head who is permanent.

5) Joins Select all details and apply the following a) left join on above any 2 tables

SELECT \* FROM EMPLOYEE1

LEFT JOIN EMPDEPT3 ON EMPLOYEE1.DEPARTMENT = EMPDEPT3.DEPTNAME;

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EMP  ID | EMPNAME | DEPART  MENT | CONTACTNO | EMAILDID | EMPHEADID | DEPTID | DEPTNAME | DEPT\_OFF | DEPT  HEAD |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | DS01 | DS | KUKATPALLY | HYD |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | DS01 | DS | KUKATPALLY | HYD |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | DS01 | DS | KUKATPALLY | HYD |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | DS01 | DS | KUKATPALLY | HYD |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | DS02 | DS | RANGAREDDY | SR |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | DS02 | DS | RANGAREDDY | SR |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | DS02 | DS | RANGAREDDY | SR |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | DS02 | DS | RANGAREDDY | SR |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | DS03 | DS | SECUNDERABAD | SEC |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | DS03 | DS | SECUNDERABAD | SEC |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | DS03 | DS | SECUNDERABAD | SEC |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | DS03 | DS | SECUNDERABAD | SEC |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | DS04 | DS | KUKATPALLY | HYD |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | DS04 | DS | KUKATPALLY | HYD |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | DS04 | DS | KUKATPALLY | HYD |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | DS04 | DS | KUKATPALLY | HYD |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | DS05 | DS | RANGAREDDY | SR |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | DS05 | DS | RANGAREDDY | SR |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | DS05 | DS | RANGAREDDY | SR |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | DS05 | DS | RANGAREDDY | SR |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | DS06 | DS | SECUNDERABAD | SEC |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | DS06 | DS | SECUNDERABAD | SEC |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | DS06 | DS | SECUNDERABAD | SEC |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | DS06 | DS | SECUNDERABAD | SEC |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | IT03 | IT | NAMPALLY | HYD |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 | IT03 | IT | NAMPALLY | HYD |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | IT03 | IT | NAMPALLY | HYD |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | IT03 | IT | NAMPALLY | HYD |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | IT04 | IT | MONIKONDA | HYD |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 | IT04 | IT | MONIKONDA | HYD |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | IT04 | IT | MONIKONDA | HYD |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | IT04 | IT | MONIKONDA | HYD |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | IT05 | IT | NAMPALLY | HYD |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 | IT05 | IT | NAMPALLY | HYD |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | IT05 | IT | NAMPALLY | HYD |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | IT05 | IT | NAMPALLY | HYD |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | IT06 | IT | MONIKONDA | HYD |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 | IT06 | IT | MONIKONDA | HYD |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | IT06 | IT | MONIKONDA | HYD |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | IT06 | IT | MONIKONDA | HYD |

b) right join on above any 2 tables

SELECT \* FROM EMPLOYEE1

RIGHT JOIN EMPSALARY1 ON EMPLOYEE1.EMPID = EMPSALARY1.EMPID;

Answer:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPART  MENT | CONTACTNO | EMAILDID | EMPHEAD  ID | EMPID | SALARY | ISPERMANENT |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | 2 | 20000 | YES |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | 4 | 30000 | YES |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 | 7 | 40000 | YES |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | 9 | 20000 | NO |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | 10 | 20000 | YES |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 | NULL | NULL | NULL |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | 12 | 20000 | YES |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 | 13 | 40000 | YES |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | 14 | 20000 | NO |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | 15 | 50000 | YES |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | 15 | 50000 | YES |

c) inner join on above any 2 tables

SELECT \* FROM EMPLOYEE1

INNER JOIN EMPSALARY1 ON EMPLOYEE1.EMPID = EMPSALARY1.EMPID;

Answer:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPART  MENT | CONTACTNO | EMAILDID | EMPHEAD  ID | EMPID | SALARY | ISPERMANENT |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | 2 | 20000 | YES |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | 4 | 30000 | YES |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 | 7 | 40000 | YES |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | 9 | 20000 | NO |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | 10 | 20000 | YES |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | 12 | 20000 | YES |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 | 13 | 40000 | YES |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | 14 | 20000 | NO |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | 15 | 50000 | YES |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | 15 | 50000 | YES |

d) cross join on above any 2 tables

SELECT \* FROM EMPLOYEE1

CROSS JOIN EMPSALARY1 ON EMPLOYEE1.EMPID = EMPSALARY1.EMPID;

Answer:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPART  MENT | CONTACTNO | EMAILDID | EMPHEAD  ID | EMPID | SALARY | ISPERMANENT |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | 2 | 20000 | YES |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | 4 | 30000 | YES |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 | 7 | 40000 | YES |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | 9 | 20000 | NO |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | 10 | 20000 | YES |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | 12 | 20000 | YES |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 | 13 | 40000 | YES |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | 14 | 20000 | NO |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | 15 | 50000 | YES |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | 15 | 50000 | YES |

e) observe the difference in each join and explain all of them in your own words

6) Update a value in the employee table. Hint(Set empname as Maria where empid is 10)

UPDATE EMPLOYEE1

SET EMPNAME="MARIA" WHERE EMPID=10;

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 |
| 10 | Maria | DS | 8894567890 | 999@gmail.com | 127 |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 |

7)Delete the entire row in employee table where empid is 10

ALTER TABLE EMPLOYEE1

DELETE FROM EMPLOYEE1 WHERE EMPID=10;

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 |

8) altering table

a) adding additional column in employee table

ALTER TABLE EMPLOYEE1

ADD SALARY INT(100);

Answer:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID | SALARY |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 | NULL |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 | NULL |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 | NULL |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 | NULL |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 | NULL |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 | NULL |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 | NULL |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 | NULL |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 | NULL |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 | NULL |

b) removing the newly added column from employee table

ALTER TABLE EMPLOYEE1

DROP COLUMN SALARY ;

Answer:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| EMPID | EMPNAME | DEPARTMENT | CONTACTNO | EMAILDID | EMPHEADID |
| 2 | Parag | IT | 1234567890 | abc@gmail.com | 123 |
| 4 | Rahul | IT | 1234567890 | abc@gmail.com | 124 |
| 7 | Rohit | CSE | 8764898954 | def@gmail.com | 125 |
| 9 | Ram | DS | 7767738848 | 123@yahoo.com | 126 |
| 10 | Renuka | DS | 8894567890 | 999@gmail.com | 127 |
| 11 | Praveen | IT | 7894567890 | abcd@gmail.com | 128 |
| 12 | Ravi | IT | 6784567890 | abcc@gmail.com | 129 |
| 13 | Rakesh | CS | 4564898954 | ddef@gmail.com | 130 |
| 14 | Karthick | DS | 8907738848 | 1123@yahoo.com | 131 |
| 15 | Vijay | DS | 9894567890 | 9999@gmail.com | 132 |

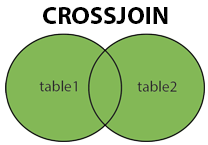
9) Find the count of common salaries given to the employees (hint use group by)

10) lists the number of employees and there common salary, sorted high to low (Only include common salary with more than 5 employees)

11. Explain about the JOINS.

A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

* INNER JOIN: Returns records that have matching values in both tables
* LEFT JOIN: Returns all records from the left table, and the matched records from the right table
* RIGHT JOIN: Returns all records from the right table, and the matched records from the left table
* CROSS JOIN: Returns all records from both tables

12. What are UNION, MINUS and INTERSECT commands?

|  |  |
| --- | --- |
| **Command** | **Description** |
| UNION | The most commonly used command, UNION combines the two answer sets into a single answer set. It automatically removes duplicate rows from the results. |
| INTERSECT | INTERSECT gives you the rows that are found in both queries by eliminating rows that are only found in one or the other query. |
| MINUS | MINUS gives you the rows that are found in the first query and not in the second query by removing from the results all the rows that are found only in the second query. |

13. What are the differences between TRUNCATE, DELETE and DROP?

|  |  |  |  |
| --- | --- | --- | --- |
|  | **DELETE Command** | **DROP Command** | **TRUNCATE Command** |
| Language | The DELETE command is Data Manipulation Language Command. | The DROP command is Data Definition Language Command. | The TRUNCATE command is a Data Definition Language Command. |
| Use | The DELETE command deletes one or more existing records from the table in the database. | The DROP Command drops the complete table from the database. | The TRUNCATE Command deletes all the rows from the existing table, leaving the row with the column names. |
| Transition | The TRUNCATE Command deletes all the rows from the existing table, leaving the row with the column names. | We cannot get the complete table deleted from the database using the ROLLBACK command. | We cannot restore all the deleted rows from the database using the ROLLBACK command. |
| Syntax | DELETE FROM table\_name WHERE condition; | DROP TABLE table\_name; | TRUNCATE TABLE table\_name; |