**A] Create with foreign key**

Q1. Create a database jbccollege<rno>

Q2. Create following tables in jbccollege<rno>

Employee with fields

EID (Employee id), small integer, unique field

ENAME (Employee Name), with size 20, not empty

GEND (Gender), ‘M’ or ‘F’ accept any one

Salary with fields

EID (Employee id), small integer, unique field, connect this field with EID of Employee table

BS (Basic Salary), 10 integers and 2 decimal

Q3. Insert following records in the table Employee

|  |  |  |
| --- | --- | --- |
| **EID** | **ENAME** | **GEND** |
| 1 | MANGESH | M |
| 2 | SNEHAL | F |
| 3 | SHEETAL | F |
| 4 | ANIL | M |
| 5 | TEENA | F |
| 6 | NAMITA | F |
| 7 | AJAY | M |
| 8 | PRAKASH | M |
| 9 | PRASAD | M |
| 10 | KIRAN | M |

Q4. Insert following records in the table Salary

|  |  |
| --- | --- |
| **EID** | **BS** |
| 1 | 5000 |
| 2 | 6000 |
| 3 | 7000 |
| 4 | 4000 |
| 5 | 3000 |
| 6 | 2000 |
| 7 | 1000 |
| 8 | 5500 |
| 9 | 4500 |
| 10 | 7500 |

**B] Select**

Q5. Display all records from table Employee

Q6. Display all records from table Salary

Q7. Display records of Male employees only

Q8. Display records of female employees only

Q9. Display all records whose employee name begins with character ‘S’

Q10. Display all records whose employee name ends with character ‘H’

Q11. Display records where employee name contains characters ‘EE’

Q12. Display records where employee name contains characters ‘SAD’

Q13. Display first five records only

Q14. Display next five records except first five

Q15. Display all records in ascending order of employee name

Q16. Display all records in descending order of employee name

Q17. Calculate & Display DA (which is 10% of basic salary) with columns EMPLOYEE ID, BASIC SALARY and DA

Q18. Calculate & Display DA (which is 50% of basic salary) & HRA (which is 3% of basic salary) with columns EMPLOYEE ID, BASIC SALARY, DA & HRA

**C] Alter, Update & Select**

Q19. Change employee name AJAY to AJAYKUMAR

Q20. Increase the salary of every employee by 2%

Q21. Add new column age in table employee

Q22. Update age of every employee

|  |  |
| --- | --- |
| **EID** | **AGE** |
| 1 | 20 |
| 2 | 21 |
| 3 | 22 |
| 4 | 19 |
| 5 | 20 |
| 6 | 21 |
| 7 | 22 |
| 8 | 23 |
| 9 | 18 |
| 10 | 25 |

Q23. Display list of employees with all columns from table employee

Q24. Add columns DA, HRA, MA, PF, GS & NS in table Salary

Q25. Calculate & Update DA 50% on BS

Q26. Calculate & Update HRA(15% on BS),MA(25% on BS),Gross Salary, PF(10.2% on GS) & Net Salary.

Q27. Display list of employees whose age is more than 25

Q28. Display list of employees whose age is less than 25

Q29. Display list of employees whose age is between 20 & 25

**Answer Sheet**

**A]**

Q1) create database jbccollege329;

Q2) create table employee

( eid smallint primary key,

ename varchar(20) not null,

gend enum('M','F'));

create table salary

( eid smallint primary key,

bs decimal(10,2),

foreign key (eid) references employee(eid));

Q3) insert into employee(eid,gend,ename) values

(1,'M',"Mangesh"),

(2,'F',"SNEHAL"),

(3,'F',"SHEETAL"),

(4,'M',"ANIL"),

(5,'F',"TEENA"),

(6,'F',"NAMITA"),

(7,'M',"AJAY"),

(8,'M',"PRAKASH"),

(9,'M',"PRASAD"),

(10,'M',"KIRAN");

Q4) insert into SALARY(eid,BS) values

(1,5000),

(2,6000),

(3,7000),

(4,4000),

(5,3000),

(6,2000),

(7,1000),

(8,5500),

(9,4500),

(10,7500);

**B]**

Q5) SELECT \* FROM EMPLOYEE;

Q6) SELECT \* FROM SALARY;

Q7) SELECT \* FROM EMPLOYEE WHERE GEND='M';

Q8) SELECT \* FROM EMPLOYEE WHERE GEND='F';

Q9) SELECT \* FROM EMPLOYEE WHERE ENAME LIKE 'S%';

Q10) SELECT \* FROM EMPLOYEE WHERE ENAME LIKE '%H';

Q11) SELECT \* FROM EMPLOYEE WHERE ENAME LIKE '%EE%';

Q12) SELECT \* FROM EMPLOYEE WHERE ENAME LIKE '%SAD%';

/\* ANS Q13 \*/

SELECT \* FROM EMPLOYEE LIMIT 5;

/\* ANS Q14 \*/

SELECT \* FROM EMPLOYEE LIMIT 5,5;

Q15) SELECT \* FROM EMPLOYEE ORDER BY ENAME ASC;

Q16) SELECT \* FROM EMPLOYEE ORDER BY ENAME DESC;

Q17) SELECT EID AS "EMPLOYEE ID",BS AS "BASIC SALARY",

Q18) BS\*10/100 AS "DA" FROM SALARY;

**C]**

Q19) SELECT EID AS "EMPLOYEE ID",BS AS "BASIC SALARY",

BS\*50/100 AS "DA",BS\*3/100 AS "HRA" FROM SALARY;

Q20) UPDATE EMPLOYEE SET ENAME='AJAYKUMAR' WHERE ENAME='AJAY';

UPDATE SALARY SET BS=BS+BS\*2/100;

Q21) ALTER TABLE EMPLOYEE ADD COLUMN AGE SMALLINT(2);

Q22)

UPDATE EMPLOYEE SET AGE=20 WHERE EID IN(1,5);

UPDATE EMPLOYEE SET AGE=21 WHERE EID IN(2,6);

UPDATE EMPLOYEE SET AGE=22 WHERE EID IN(3,7);

UPDATE EMPLOYEE SET AGE=19 WHERE EID IN(4);

UPDATE EMPLOYEE SET AGE=23 WHERE EID IN(8);

UPDATE EMPLOYEE SET AGE=18 WHERE EID IN(9);

UPDATE EMPLOYEE SET AGE=25 WHERE EID IN(10);

Q23) SELECT \* FROM EMPLOYEE;