

# INTERNATIONAL INDIAN SCHOOL, RIYADH

## XI – XII BOYS SECTION

### INFORMATICS PRACTICES WORKSHEET

#### 16<sup>TH</sup> CHAPTER GROUPING RECORDS AND TABLE JOINS

#### Grade- XII

1. Study the following tables CONSULTANT and SALARY and write SQL commands for the questions (i) to (ii) and give outputs for SQL queries (iii) to (iv)

Table : CONSULTANT

| ID  | NAME   | DEPT       | SEX | EXPERIENCE |
|-----|--------|------------|-----|------------|
| E01 | Raj    | ENT        | M   | 12         |
| O01 | Rohan  | ORTHOPEdic | M   | 5          |
| C07 | Maria  | CARDIOLOGY | F   | 10         |
| E14 | Mathew | ENT        | M   | 3          |

Table :SALARY

| ID  | BASIC | ALLOWANCE | CONSULTATION |
|-----|-------|-----------|--------------|
| E01 | 12000 | 1000      | 300          |
| O01 | 23000 | 2300      | 400          |
| C07 | 32000 | 4000      | 500          |
| E14 | 12000 | 5200      | 100          |

- (i) Display the average salary of all the consultants working in :ENT' department using the tables CONSULTANT and SALARY.  
Salary = BASIC + ALLOWANCE
- (ii) Display the minimum ALLOWANCE of female consultants.
- (iii) SELECT NAME, BASIC, ALLOWANCE from CONSULTANT, SALARY
- (iv) SELECT NAME, DEPT, BASIC from CONSULTANT,

SALARY where DEPT = "ENT" and CONSULTANT.ID = SALARY.ID

2. In a database school there are two tables customer and Bill as shown below  
Table : Customer

| Customer ID | CustomerName        | CustAddress              | CustPhone  |
|-------------|---------------------|--------------------------|------------|
| 1           | AkhileshNarang      | C4, JanakPuri,<br>Delhi  | 9811078987 |
| 2           | Purnima<br>Williams | B1,Ashok Vihar,<br>Delhi | 9678678711 |
| 3           | SumedhaMadaan       | 33, South Ext.,<br>Delhi | 6767355412 |

Table : Bill

| BillNo. | CustID | Bill_Amt |
|---------|--------|----------|
| 1       | 2      | 12000    |
| 2       | 1      | 15000    |
| 3       | 2      | 13000    |
| 4       | 3      | 13000    |
| 5       | 2      | 14000    |

- (i) How many rows and how many columns will be there in the Cartesian product of these two tables?
- (ii) Which column in the "Bill" table is the foreign key?
3. In a database there are two tables "ITEM" and "CUSTOMER" as shown below:

Table : ITEM

| P_ID | ProductName   | Manufacturer | Price |
|------|---------------|--------------|-------|
| 1001 | Moisturiser   | XYZ          | 40    |
| 1002 | Sanitizer     | LAC          | 35    |
| 1003 | Bath SOAP     | COP          | 25    |
| 1004 | Shampoo       | TAP          | 95    |
| 1005 | Lens Salution | COP          | 350   |

Table : CUSTOMER

| C_ID | ClientName   | City      | P_ID |
|------|--------------|-----------|------|
| 01   | Samridhh Ltd | New Delhi | 1002 |
| 05   | Big Line Inc | Mumbai    | 1005 |
| 12   | 97.8         | New Delhi | 1001 |
| 15   | Tom N Jerry  | Bangalore | 1003 |

Write the command in SQL queries for the following

- (i) To display the details of item whose price is in the range of 40 and 95 (Both values included)
- (ii) To display the CustomerName , City from table Customer and ItemName and Price from the table item, with their corresponding matching ID.
- (iii) To increase the price of all the product by 50.
- (iv) Write the output for the SQL queries  
 Select ClientName, ProductName from ITEM, CUSTOMER  
 where ITEM.P\_ID=CUSTOMER.P\_ID;

4. In a database school there are two tables Employee and Dept as shown below

Table : Employee

| EmpId | Name     | Sal   | Deptno |
|-------|----------|-------|--------|
| T001  | Vishakha | 34000 | 10     |
| T001  | Mridul   | 32000 | 50     |
| T001  | Manish   | 45000 | 20     |

Table : Dept

| Deptno | DName      | LocationID |
|--------|------------|------------|
| 10     | Light      | HH02       |
| 20     | Dance      | FF02       |
| 30     | Production | AB01       |

- (i) Identify the foreign key in the table Employee.
- (ii) What output will you get, when an equi-join query is executed to get the NAME from Employee table and corresponding DNAME from Dept table ?