**Day-1 Assignment**

**Create the following tables**

# Member – It contains information about the members

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Member\_Id | Number(5) | Unique Member ID |
| Member\_Name | Varchar(30) | Name of the Library member |
| Member\_address | Varchar(50) | Address of the member |
| Acc\_Open\_Date | Date | Date of membership |
| Membership\_type | Varchar(20) | Type of the membership such as ‘Lifetime’, ’ Annual’, ‘Half Yearly’, ’ Quarterly’ |
| Penalty\_Amount | Number(7) | Penalty amount due |

**Books- It contains information about the books belongs to the library**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Book\_No | Number(6) | Book identification number |
| Book\_Name | VarChar(30) | Name of the book |
| Author\_name | Varchar(30) | Author of the book |
| Cost | Number(7) | Cost of the book |
| Category | Char(10) | Category like Science , Fiction etc. |

# Issue – It contains the information about issue of the books

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data Type** | **Description** |
| Lib\_Issue\_Id | Number(10) | Library Book Issue No |
| Book\_No | Number(6) | Number of the book issued |
| Member\_Id | Number(5) | Member that was issued the book |
| Issue\_Date | Date | Date of Issue |
| Return\_date | Date | Return date |

**Task / Problems**:

1. Create the table Member, Books and Issue without any constraints as mentioned in the schema description above.
2. View the structure of the tables.
3. Delete/Drop the column Penalty\_Amount from Member
4. Insert following data in table Member:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Member ID** | **Member Name** | **Member Address** | **Acc\_Open\_Date** | **Membership\_type** |
| 1 | Richa Sharma | Pune | 10-Dec-05 | Lifetime |
| 2 | Garima Sen | Pune | Current date | Annual |

1. Insert at least 5 records with suitable data and save it.
2. Insert data in Book table as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Book\_No** | **Book Name** | **Author** | **Cost** | **Category** |
| 101 | Let us C | Denis Ritchie | 450 | System |
| 102 | Oracle – Complete Ref | Loni | 550 | Database |
| 103 | Mastering SQL | Loni | 250 | Database |
| 104 | PL SQL-Ref | Scott Urman | 750 | Database |

1. View the data in the tables using simple SQL query.
2. Modify the price of book with id 103 to Rs 300 and category to RDBMS
3. Drop table Issue.
4. Again Create table Issue and insert following data into Issue table. Note leave the column Return\_Date blank

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Lib\_Issue\_Id** | **Book No** | **Member ID** | **Issue Date** | **Return Date** |
| 7001 | 101 | 1 | 10-Dec-06 |  |
| 7002 | 102 | 2 | 25-Dec-06 |  |
| 7003 | 104 | 1 | 15-Jan-06 |  |
| 7004 | 101 | 1 | 04-Jul-06 |  |
| 7005 | 104 | 2 | 15-Nov-06 |  |
| 7006 | 101 | 3 | 18-Feb-06 |  |

**Following are the questions on Publishers, Authors, Titles and titleauthors tables:-**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. List pname, phone, email from Publishers.

2. List aname, phone from Authors.

3. List titleid, title, pubdate from Titles.

4. List auid, titleid, importance from titleauthors.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(like)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select subject name "oracle" from subjects table.

2. select subject name starts whith 'j'.

3. select subject name which contains ".net" .

4. select author name ends whith 'er'.

5. select publishers name which contains "hill".

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(relational operator)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select title from title table having price less than 500.

2. select title from title table published before '3 april'.

3. select subject name from subject having id as 'java' or 'jee'.

4. seelct author name from author table id greater than '103'.

5. select all from title having titleid as 101 or price > 400.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(IN operator)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

6.select all from publishers table where publisher name is ('TECHMEDIA', 'WROX');

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(aggregate function)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select maximum price from titles table.

2. select average importance from titleauthors.

3. select number of records from author table.

4. select sum of prices of all books.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(date)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. select title from title table where month is 'Apr'.

2. select year from system date.

3. select month from system date.

4. select last day of month when 'java' book published.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*(DML)\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create table Employee with emp\_id (number),emp\_name(char(50)) and insert some value.

1. Add one column name 'dept\_id ' in table name 'Employee';

2. Change the datatype of column 'char' from tablename 'Employee' to 'varchar2'.

3. update name of employee to 'Scott'

4. truncate the table.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Table=> Emp

SAL(float(7,3))

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1234.567

1530.019

1652.786

1775.156

**Perform :**

1. round

2. truncate

3. ceil

4. floor

5. sign(-15)

6. mod

7. sqrt

8. power

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. perform all string function on string "CDAC juhu".

2. perform different date and time functions.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*