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     EXPERIMENT: -01
     AIM:-
           TO STUDE THE RELATIONAL MODE AND DEMONSTRATE BASIC SQL COMMANDS
           IN ORACLE 11G.
     Problem Statement:
           Establish the Tiny Stories database and execute different SQL
           queries against it. The logical database schemata, the
           organization of relations and their contents are as below:-
           EMP (EMP CODE, EMPNAME, EMP FNAME, EMP DOB, STORE CODE)
           STORE (STORE CODE, STORE NAME, YTD SALES, REGION CODE, EMP_CODE)
           REGION (REGION CODE, REGION DESC)
    -----0uery-01-----
                Write SQL Code that will crete the TinayStore database.
     ______
CREATE TABLE REGION(
        REGION_CODE NUMBER(1) ,
        REGION DESC VARCHAR(10) NOT NULL,
         CONSTRAINT REGION PK RC PRIMARY KEY(REGION CODE),
        CONSTRAINT REGION_CK_RD CHECK( REGION_DESC
IN('East','West','North','South'))
 6);
Table created.
CREATE TABLE STORE (
 2 STORE CODE NUMBER(20),
 3 STORE NAME VARCHAR(25) NOT NULL,
 4 YID_SALES NUMBER(9,2) DEFAULT 0 NOT NULL,
    REGION_CODE NUMBER(10) NOT NULL,
 6 EMP_CODE NUMBER(2),
 7 CONSTRAINT PK_STORE PRIMARY KEY (STORE_CODE)
 8 CONSTRAINT FK OF STORE REGION FOREIGN KEY(REGION_CODE) REFERENCES
REGION(REGION_CODE)
 9);
Table created.
```

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CREATE TABLE EMP(
 2 EMP_CODE NUMBER(2),
    EMP_FNAME VARCHAR(15) NOT NULL,
 4 EMP_LNAME VARCHAR(15) NOT NULL,
 5 EMP_DOB DATE NOT NULL,
 6 STORE_CODE NUMBER(1) NOT NULL,
 7 SALARY NUMBER(5) NOT NULL,
 8 CONSTRAINT FK_ON_STORE_CODE FOREIGN KEY(STORE_CODE) REFERENCES
STORE(STORE_CODE),
 9 CONSTRAINT CK_OF_EMP CHECK(SALARY >=1000),
10 CONSTRAINT PK_EMP PRIMARY KEY(EMP_CODE)
11 );
Table created.
    Write SQL Code To Print the date and Time of System .
    ______
SELECT SYSTIMESTAMP "Date-Time"
 2 FROM DUAL;
    Date-Time
    08-AUG-20 02.50.55.971000 AM +05:30
Assume that database is fully populated write SQL Code that will list all
employee Who do not earn more than 35000.
```

SELECT \* FROM EMP WHERE SALARY <= 35000;

EMP_CODE	EMP_FNAME	EMP_LNAME	EMP_DOB	STORE_CODE	SALARY
14	Mohana	Seth	01-JUN-71	22	27000
15	Sheswat	Puri	23-NOV-59	11	25000
16	Simon	Parera	03-SEP-60	12	25000
19	Aprajita	Rakshak	10-SEP-68	21	30000
20	Radhika	Ganesan	10-SEP-66	11	31000
21	Pampa	Roy	11-DEC-74	12	28000
23	Sriniwa	Reddy	25-AUG-64	31	26000
24	Vallabh	Roy	11-DEC-74	41	32000
25	Bahar	Mirpuri	09-FEB-69	22	29000

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Write Sql code to list the first and last name of employees who were born before 01-jan-1972

And who are posted in western region.

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#### SELECT EMP\_FNAME, EMP\_LNAME

- 2 FROM EMP E
- 3 INNER JOIN STORE S ON
- 4 E.EMP\_CODE=S.EMP\_CODE
- 5 INNER JOIN REGION R ON
- 6 S.REGION\_CODE=R.REGION\_CODE
- 7 WHERE REGION\_DESC='West' AND E.EMP\_DOB<='01-Jan-1972';</pre>

EMP\_FNAME EMP\_LNAME -----

Kashish Shukla Chanchal Bhati

-----Query07------

Write SQl code that wil for each store print the name of manager alongwith the store details

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## SELECT EMP\_FNAME, EMP\_LNAME, STORE\_NAME, YID\_SALES, REGION\_DESC

EMP\_LNAME STORE\_NAME

- FROM EMP E , STORE S , REGION R
- WHERE E.STORE\_CODE=S.STORE\_CODE AND S.REGION\_CODE=R.REGION\_CODE 3
- AND S.EMP\_CODE=E.EMP\_CODE
- AND S.REGION\_CODE = R.REGION\_CODE;

_	_	_	
Shukla	Sucess Junction	1000555.76	West
Khandagale	Curiosity Circle	568000	South
Singh	Opportunity Square	986785.4	East
Gokhal	Central Delunge	2930098.35	East
Khare	Attribute Alley	944568.66	North
Bhati	Database Corner	1420000.34	West
	Khandagale Singh Gokhal Khare	Khandagale Curiosity Circle Singh Opportunity Square Gokhal Central Delunge Khare Attribute Alley	Khandagale Curiosity Circle 568000 Singh Opportunity Square 986785.4 Gokhal Central Delunge 2930098.35 Khare Attribute Alley 944568.66

6 rows selected.

EMP\_FNAME

YID\_SALES

Write SQL code to print store code ,store name, region for each store.

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SELECT S.STORE\_CODE,S.STORE\_NAME,R.REGION\_DESC

- 2 FROM STORE
- 3 S INNER JOIN REGION R
- 4 ON S.REGION CODE=R.REGION CODE;

STORE_CODE	STORE_NAME	REGION_DES
21	Sucess Junction	West
22	Database Corner	West
11	Opportunity Square	East
31	Attribute Alley	North
12	Central Delunge	East
41	Curiosity Circle	South

6 rows selected.

Viva Voice

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What is SQL?

### Ans:-

SQL is a standard language for accessing and manipulating databases. Database user use SQL language for retriev data ,inserting, deleting And various manipulations based on requirements.

Enlist functions of DBA

Ans:-

- 1. Data policies, procedures, standards
- 2. Planning- development of organization's IT strategy, enterprise model, cost/benefit model, design of database environment, and administration plan.
- 3. Data conflict (ownership) resolution
- 4. Data analysis- Define and model data requirements, business rules, operational requirements, and maintain corporate data dictionary
- 5. Internal marketing of DA concepts
- 6. Managing the data repository

#### Ans:

A table holds data, in fields (columns) and entries (rows). In relational DBMSes, table-to-table relations play a major role in how data (and tables by extension) are connected to each other. For example, you have two tables named "Transactions" and "Clients". The "Clients" table contains the clients' names, client ID number, and their contact information. The "Transactions" table contains a list of transactions, ordered by transaction ID and transaction date. The relation here is the client ID number, which MUST be unique in the "Client" table (because you can't have two people sharing the same ID), but not unique in the "Transactions" table (a client can make multiple transactions).

Through this table-to-table relationship, if some employee decides to help a client look up their transaction history, the employee can search by the client ID, or if the client knows the transaction ID (which can be printed on a receipt, invoice, or some other documentation), the information about both the transaction and/or the client will be referenced.

Technically, the difference between a Baan 4Gl and a Baan 3GL script is that a 4GL script is treated by a special precompiler first. This precompiler translates it into a Baan 3GL script, which then is compiled into the final baan object. The sections of the 4GL script are mapped to functions in the 3GL script. During runtime, that script gets linked to a standard DLL which does the basic user interface handling and calls the methods of the created object.

# Inference:-

- Recursive definition of table requires altrations in a constraint.
- 2. Fetching data from different tables requires join operations.