Assignment-4:

- Create the following Table.

Emp (emp_id, name,city, job, salary, join_date, commission, dept_no)
Dept (dept_no, dname, location)

- Solve the following query

1) Display detailed of employee joined in the month of 'MARCH'
2) Display details of employee whose city is not 'DELHI' or 'PUNE'
3) Display details of employee joined after '1st January 1990'
4) Display details of employee whose is 'MANAGER' or 'OFFICER'
5) Display details of employee in ascending order of name
6) Display second highest salary of employee
7) Display details of employee whose joining date is in month of 'FEB'
8) List details of employee not working in 'ACCOUNT 'department
9) Display the list of employee whose post is 'PROGRAMMER' or salary >= 15000
10) Count the number of employee in each department.
11) Create Synonyms for above table.
12) Create unique index on the emp_id.

Assignment-5:

- Create the following Table.

Customer (cust_no,Fname,Lname,birth_date,city,mob_no,dept_name,salary) Give primary key constraint to cust_no and check constraint to salary such that salary should not be less than 5000.

- Solve the following query

1) Display the list of customer with department name
2) List of customer by salary wise
3) Display details of customer whose birth date is in year of '1980'
4) Display details of customer whose mobile no start with '99..'series
5) Display name and depart name of customer whose city starting from 'M'
6) Display average salary of customer
7) Display minimum salary in each department
8) Display count of customer having salary greater than 3000
9) List name of customer having 'A' as 2nd letter in first name
10) Write a query to add middle_name column to customer table
11) Create Synonyms for above table.
12) Create unique index on the cust_no.

Assignment-6:

(A) Create the Following table and Do as Directed.

Table Name = EMP

Column Name	Data type	Size	Arrtibute
Emp_id	Number	6	Primary key
Branch_id	Number	6	
Fname	Varchar2	15	Not Null
LName	Varchar2	15	Not Null
Dept	Varchar2	15	
Designation	Varchar2	15	
Salary	Number	5	
Commission	Number	4	

1. Insert 10 Records.
2. Show Table Structure.
3. Combine Fname and lname. And new column's name is "Full Name".
4. Rename the table to Employee_Master.
5. Give the details of that employee whose salary is greater than 15000.
6. List all the records in order by Designation.
7. Give the number of employees by group by Branch_Id.
8. Calculate Commission as 5% of the salary
9. Calculate the Final Salary = Commission + Salary.
10. Find out the record whose designation is 'Manager'.

Assignment-7:

(A) Create table with following criteria

Table Name : **Student**

Column Name	Data Type	Attribute	
Stud_Id	Number	Primary Key	
Stud_Name	Varchar	Not Null	
Gender	Varchar	M or F	
Contact No.	Number		
Sub_1	Number	Marks between 0 &100	
Sub_2	Number	Marks between 0 &100	
Sub_3	Number	Marks between 0 &100	

Queries:

1. Insert 10 records as per given format.
2. Display Table Structure
3. Display Student Whose name starts with Letter "M".
4. Display Student Whose name starts with Second Letter "A".
5. Display all information of students whose all subject marks are Greater Than 35.
6. Calculate Total, Average, Min and Max Marks.
7. Drop the Constraint Not Null.
8. Add new Column "City" with appropriate data type.
9. Rename the table to Student_Master.
10. Delete Records Whose Student Id is 101.

Assignment-8:

(A) Create the Following table and Do as Directed.

Table Name: **Customer.**

Field Name	Data Tyepe	Size	Attribute
Cust_Id	Number	4	Primary Key
Cust_city	Varchar2	15	
Product_Name	Varchar2	5	
Product_Prise	Number	7,2	Not Null
Quantity	Number	5	Not Null
Bill_Amt	Number	7,2	Not Null

Do as Directed.

1. Display Table Structure.
2. Insert 10 records.
3. Insert "Amreli" as a city for record 1,3,5 and "Vadodara" as a city for record 2,4,6,8. And Surat for all other records.
4. Update city="Mumbai" where city="Surat".
5. Add New Column "Discount" With Appropriate Data type.
6. Calculate "Bill_Amt". (Product Prise * Quantity)
7. Find Discount 10% if Bill_Amt amount is greater than 10000.
8. Fetch all records that are not eligible for discount.
9. Delete All Records whose Bill_Amt amount is less than 1000.
10. Display all bills whose bill amount is between Rs. 2000 to Rs. 5000.

Assignment-9:

A. Create a relational database that contains the following tables and insert the following data into these tables.

STUD_MEMBER

Roll_No	*FName*	*MName*	*SName*	*Dept_ID*	*Semester*	*Contact_No*	*Gender*
1	Ankur	Samir	Kahar	1	1	272121	M
2	Dhaval	Dhiren	Joshi	1	1	232122	M
3	Ankita	Biren	Shah	1	1	112121	F
10	Komal	Maheshkumar	Pandya	2	3	123123	F
13	Amit	Jitenkumar	Mehta	3	3	453667	M
23	Jinal	Ashish	Gandhi	2	1	323232	M
22	Ganesh	Asha	Patel	2	3	124244	M
4	Shweta	Mihir	Patel	3	1	646342	F
7	Pooja	Mayank	Desai	3	3	328656	F
8	Komal	Krishnaraj	Bhatia	2	3	257422	F
43	Kiran	Viraj	Shah	1	1	754124	F

DEPARTMENT

Dept_ID	*Dept_Name*
1	Information Technology
2	Electrical
3	Civil
4	Mechanical
5	Chemical

B. Now, solve the following SQL Queries.

1.	Display the names and contact numbers of all student members.
2.	Give the names and roll numbers of all students of Information Technology who are members.
3.	Display names of Departments whose students are members.
4.	Display names of Departments for which no students are members.
5.	Display names of all Departments.
6.	Find the number of students of Electrical Department who are members.
7.	Display information of student members whose name begins with the letter "A".
8.	Display all details of Male members only.
9.	Display data of student members who are currently in semester '3'.
10.	Display data of student female members in alphabetical order.

Assignment-10:

Table: sales

OrderID	OrderDate	OrderPrice	OrderQuantity	CustomerName
1	12/22/2005	160	2	Smith
2	08/10/2005	190	2	Johnson
3	07/13/2005	500	5	Baldwin
4	07/15/2005	420	2	Smith
5	12/22/2005	1000	4	Wood
6	10/2/2005	820	4	Smith
7	11/03/2005	2000	2	Baldwin

Solve following queries using Aggregate Function for above table:

1. Count how many orders have made a customer with CustomerName of Smith.
2. Find number of unique customers that have ordered from the store.
3. Find out total no. of items ordered by all the customers.
4. Find out average number of items per order.
5. Find out the average OrderQuantity for all orders with OrderPrice greater than 200
6. Find out what was the minimum price paid for any of the orders.
7. Find out the highest OrderPrice from the given sales table
8. List out unique customers' name only from the table.
9. List out name of the customers who have given order in the month of DECEMBER
10. Find out the total amount of money spent for each of the customers.
11. Select all unique customers, who have spent more than 1200 in the store.
12. Select all customers that have ordered more than 5 items in total from all their orders.
13. Select all customers who have spent more than 1000, after 10/01/2005.
14. Select orders in increasing order of order price.
15. Select orders in decreasing order of order price.

Assignment-11:

Q-1: Create the following tables with necessary constraints:

CLIENT_MASTER(**CLIENTNO**,NAME,ADDRESS,CONNECTION_TYPE,AREA, METER_ON_RENT)

(Underline and bold field indicates it is primary key. Name must be in uppercase only, Connection_type must consist 'Domestic','Business' or 'Temporary', Area must be 'Rural' or 'Urban',Meter_on_rent must be 'y' or 'n').

(Insert at least 10 Records in table with appropriate data) **[20]**

Write SQL queries for the following: **[30]**

(1) Add CONTACT_NO in the table with Not Null constraints.
(2) Create Synonyms for above table.
(3) Create unique index on the CLINETNO.
(4) List names of the Clients with address who are living in 'Rural' area and having their own meter and having temporary connection.
(5) Count the number of Clients who are living in Urban area and having business connection and not their own meter.

Assignment-12:

Q-1: Q-1: Create the following tables with necessary constraints:

ACCOUNT(**ACC_NO**,NAME,DOB,OPENING_DT, AC_BSLANCE,AC_TYPE, AC_STATUS)

(Underline and bold field indicates it is primary key. Name must be in uppercase only, Account type 'S' for 'Savings' , 'C' for 'Current', Balance must be greater than 0, Account status 'O' for Open and 'C'for Close).

(Insert at least 10 Records in table with appropriate data) **[20]**

Write SQL queries for the following: **[30]**

(1) Display name, date of birth and details of the account holders who are having age below 18.
(2) Display name and balance of the account holders with closed account.
(3) Create sequence to generate account number of starting with 50001 with no cycle option.
(4) List the details of the account holders whose balance between 5000 to 50000 and having current account.
(5) Display the details of account holders who opened their account on 5th January and having account since last 10 years.
(6) Display the first three characters , last three characters, fifth character , position of 'M' in name, pad the name up to 10 characters by '*'.

Assignment-13:

Create the following tables and store at least 10 records in it.

Table Name : Department			
Field Name	**Field Type**	**Width**	**Constraint**
Dept_id	Number	3	Primary Key
Dept_name	Varchar2	25	Not Null
Dept_location	Varchar2	25	Not Null
Table Name : Employee			
Field Name	**Field Type**	**Width**	**Constraint**
Emp_id	Number	5	Primary Key
Emp_Name	Varchar2	25	Not Null
DOJ	Date	-	Date of Joining
DOB	Date	-	Date of Birth
Salary	Number	(15,2)	Default value(0.0)
Dept_id	Number	3	References Dept_id of department table

Perform following query on above table:

(1). Display only those records which are work in sales department.
(2). Update salary of employee with 500 Rs/- where dept_id is 20.
(3). Display only those employee details whose joining year is 2007.
(4). Create view for manager which provides details of both tables.
(5). Display sum of salary given to the production department.
(6). Display only those records where dept_location is Rajkot.
(7). Display minimum and maximum salary given to the employee.
(8). Display name and experience of the employees.
(9). Display the number of days between system date and 1st January 2011.
(10). Display name after converting the first letter of each name to upper case and the rest to lower case.
(11). Display names and Salary of employee whose name begin with 'A' or 'B'.
(12). Display name of employee and age as on today.
(13). Display the information of employee whose name is greater the 5 character.
(14). Delete the information of whose salary between 5000 to 10000.

Assignment-14:

- Create the following tables with necessary constraints.

SALESMEN (**SID**, SNAME, SADD, SPHONE)
ITEM (I**TEMNO**, ITEMNAME, PRICE)
SMAN_ITEM (SID, ITEMNO, QTY)
(Underline and bold fields indicates it is primary key. In SMAN_ITEM table SID and ITEMNO are foreign keys)

(1). Display details of all those items that have never been sold.
(2). Delete all those items that have been sold only once.
(3). Display all those salesmen who have sale out more than 1000 qty of the same item.
(4). List all salesmen with their total amount of selling.
(5). Display item wise selling details.