1. Create a table customer (cust\_novarchar(5), cust\_namevarchar(15), age number, phone varchar(10) )
2. insert 5 records and display it
3. add new field d\_birth with date datatype
4. create another table cust\_phone with fields cust\_name and phone from customer table
5. remove the field age
6. change the size of the cust\_name to 25
7. delete all the records from the table
8. rename the table cutomer to cust
9. drop the table
10. Create a table sales\_man ( salesman\_no primary key, s\_name not null, place, phone unique)

Create table sales\_order(order\_no primary key

order\_date not null

salesman\_no foreign key references salesman\_no in sales\_man

del\_type values should be either P or F (check constraints)

order\_status values should be 'Inprocess','Fullfilled','Backorder', 'Cancelled' (check constraints) )

1. Insert few records in both tables
2. Delete primary key from sales\_man table
3. Delete Foreign key and Check constraints from sales\_order table
4. Add primary key in sales\_man using ALTER TABLE
5. Add foreign key and CHECK constraints in sales\_order table using ALTER TABLE
6. Create a table Hospital with the fields (doctorid,doctorname,department,qualification,experience).

Write the queries to perform the following.

1. Insert 5 records
2. Display the details of Doctors
3. Display the details of doctors who have the qualification ‘MD’
4. Display all doctors who have more than 5 years experience but do not have the qualification ‘MD’
5. Display the doctors in ‘Skin’ department
6. update the experience of doctor with doctored=’D003’ to 5
7. Delete the doctor with DoctorID=’D005’
8. Create the following tables

Bank\_customer (accno primary key, cust\_name,place)

Deposit (accno foreignkey, deposit\_no, damount)

Loan (accno foreign key loan\_no, Lamount)

Write the following queries

1. Display the details of the customers
2. Display the customers along with deposit amount who have only deposit with the bank
3. Display the customers along with loan amount who have only loan with the bank
4. Display the customers they have both loan and deposit with the bank
5. Display the customer who have neither a loan nor a deposit with the bank
6. Create a table employee with fields (EmpID, EName, Salary, Department, and Age). Insert some records. Write SQL queries using aggregate functions and group by clause
7. Display the total number of employees.
8. Display the name and age of the oldest employee of each department.
9. Display the average age of employees of each department
10. Display departments and the average salaries
11. Display the lowest salary in employee table
12. Display the number of employees working in purchase department
13. Display the highest salary in sales department;
14. Display the difference between highest and lowest salary
15. Create a table product with the fields (Product\_code primary key, Product\_Name, Category, Quantity, Price).

Insert some records Write the queries to perform the following.

* 1. Display the records in the descending order of Product\_Name
  2. Display Product\_Code, Product\_Name with price between 20 and 50
  3. Display the details of products which belongs to the categories of ‘bath soap’, ‘paste’, or ‘washing powder’
  4. Display the products whose Quantity less than 100 or greater than 500
  5. Display the products whose names starts with 's'
  6. Display the products which not belongs to the category 'paste'
  7. Display the products whose second letter is 'u' and belongs to the Category 'washing powder'
     + 1. Consider the employee database given below. Give an expression in SQL for each of the following queries:

EMPLOYEE (Employee-Name, City)

WORKS (Employee-Name, Company-Name, Salary)

COMPANY (Company-Name, City)

MANAGES (Employee-Name, Manager-Name)

1. Find the names of all employees who work in Infosys
2. Find the names and cities of residence of all employees who works in Wipro
3. Find the names, and cities of all employees whowork in Infosys and earn more than Rs. 10,000.
4. Find the employees who live in the same cities as thecompanies for which they work.
5. Find all employees who do not work inWipro Corporation.
6. Find the company that has the most employees.
   * + 1. Create table supplier(supcode,sname,city)

Create table product (pcode,pname)

Create table supl\_product(supcode,pcode,qty)

1. Get all pairs of supplier numbers such that the two suppliers are located in the samecity.
2. Get supplier names for suppliers who supply product P2.
3. Get product numbers supplied by more than one supplier.
4. Get supplier numbers for suppliers who are located in the same city as supplier S1.
5. Get supplier names for suppliers who supply part P1.
6. Get the number of Suppliers, who are supplying at least one product.
7. For each product supplied, get the pcode. and the total quantity supplied for that part.
   * + 1. Prepare a salary report of the employees showing the details such as:

EmpNo, Name, Basic Pay, DA, Gross Salary, PF, Net Salary, Annual Salary and Tax

For this purpose, create a table named SALARIES having the following structure.

|  |  |  |
| --- | --- | --- |
| Field Name | Type | Width |
| EmpNo | Character | 10 |
| Name | Character | 20 |
| Basic | Numeric | 6 |

Enter the records of at least 10 employees. Use the following information for calculating the details for the report:

DA is fixed as the 40% of the basic pay.

PF is fixed as 10% of the basic pay.

Gross Salary is (Basic Pay + DA).

Net Salary is (Gross Salary – PF)

Annual Salary is (12 \* Net Salary)

Tax is calculated using the following rules:

If annual salary is less than 100000, No Tax

If annual salary is greater than 100000 but less than or equal to 150000, then the tax is 10% of the excess over 100000.

If annual salary is greater than 150000 but less than or equal to 250000, then the tax is 20% of the excess over 150000.

If annual salary is greater than 250000, then the tax is 30% of the excess over 250000.

* + - 1. Create table exam\_result(rollno, avg\_score, Grade) insert 10 records. Assign null values to the field grade. Write Program block to update the grade field by using the following condition.

avg\_score between 90 and 100 - A

avg\_score 75 -89 - B

avg\_score 60- 74 - C

avg\_score 50 -59 - D

avg\_score below 50 - E

* + - 1. Write a program code to calculate the area of a circle for a value of radius varying from 3 to 7. Store the radius and the corresponding value of calculated area in an empty table named areas with field’s radius and area.
      2. Write a program block to calculate the electricity bill by accepting cust\_no and units\_consumed.
      3. Create a procedure toprint Fibonacci number up to a limit, limit is passed as an argument
      4. Create a function to check whether a given number is prime or not
      5. create a table stud\_mark(regno, sname ,avg\_mark)

Insert few records

Write a procedure to display number of students got Distinction, first-class,second class , third class or failed (90-100 distinction, 75-89firstclass60-74 second class 50-59 Third class below 50 failed)

* + - 1. create a table emp\_salary(empno,enamedept,salary)

Write a function to return the average salary of a particular department by accepting departmentname as argument.

* + - 1. create a table Student(regno, sname, sub1,sub2,sub3,sub4,sub5,mark\_total,avg\_mark)

Create a BEFORE INSERT trigger to calculate total mark and average mark and update the corresponding columns.

* + - 1. create table phonebook(pname,mobno)

Create a Trigger to insert the old records from the table phonebook to del\_phonebook (pname, mobno, modfy\_date) whenever a record is deleted or updated in the phonebook table.