























e) List the name of student who has got the highest marks in paper 2

3. Create the following tables and answer the queries given below:

- Customer (CustID, email, Name, Phone, ReferrerID)
  - Bicycle (BicycleID, DatePurchased, Color, CustID, ModelNo) BicycleModel (ModelNo, Manufacturer, Style)
  - Service (StartDate, BicycleID, EndDate)
- a) Identify primary and foreign keys. Create the tables and insert at least 5 records in each table.
  - b) List all the customers who have the bicycles manufactured by manufacturer “Honda”.
  - c) List the bicycles purchased by the customers who have been referred by customer “C1”.
  - d) List the manufacturer of red colour bicycles.
  - e) List the models of the bicycles given for service.

4. Create the following tables, enter at least 5 records in each table and answer the queries given below.

- EMPLOYEE (Person\_Name, Street, City ) WORKS ( Person\_Name, Company\_Name, Salary )
  - COMPANY ( Company\_Name, City )
  - MANAGES ( Person\_Name, Manager\_Name )
- a) Identify primary and foreign keys.
  - b) Alter table employee, add a column “email” of type varchar (20).
  - c) Find the name of all managers who work for both Samba Bank and NCB Bank.
  - d) Find the names, street address and cities of residence and salary of all employees who work for “Samba Bank” and earn more than \$10,000.
  - e) Find the names of all employees who live in the same city as the company for which they work.
  - f) Find the highest salary, lowest salary and average salary paid by each company.
  - g) Find the sum of salary and number of employees in each company.
  - h) Find the name of the company that pays the highest salary.

5. Create the following tables, enter at least 5 records in each table and answer the queries given below.

- Suppliers (SNo, Sname, Status, SCity)
  - Parts (PNo, Pname, Colour, Weight, City)
  - Project (JNo, Jname, Jcity)
  - Shipment (Sno, Pno, Jno, Quantity)
- a) Identify primary and foreign keys.
  - b) Get supplier numbers for suppliers in Paris with status>20.
  - c) Get supplier details for suppliers who supply part P2. Display the supplier list in increasing order of supplier numbers.
  - d) Get suppliers names for suppliers who do not supply part P2.
  - e) For each shipment get full shipment details, including total shipment weights.
  - f) Get all the shipments where the quantity is in the range 300 to 750 inclusive.
  - g) Get part nos. for parts that either weigh more than 16 pounds or are supplied by suppliers S2, or both.
  - h) Get the names of cities that store more than five red parts.
  - i) Get full details of parts supplied by a supplier in London.
  - j) Get part numbers for parts supplied by a supplier in London to a project in London. k) Get the total number of projects supplied by a supplier (say, S1).
  - k) Get the total quantity of a part (say, P1) supplied by a supplier (say, S1)