PYTHON PROGRAMMING

DATABASE CONNECTIVITY WITH ORACLE

1. Create a table as given below with one column as primary key using DDL command and insert the values using DML command.
    a. Add a new column address after year of birth.
    b. Display the first name and last name who was born on 1993.
    c. Delete the information who's id is 12.
    d. Display the entire table using fetchall() and fetchmany()
    e. Delete all the information from the table.

ID	First Name	Last Name	Email	Year of Birth
1	Peter	Lee	plee@university.edu	1992
2	Jonathan	Edwards	jedwards@university.edu	1994
3	Marilyn	Johnson	mjohnson@university.edu	1993
6	Joe	Kim	jkim@university.edu	1992
12	Haley	Martinez	hmartinez@university.edu	1993
14	John	Mfume	jmfume@university.edu	1991
15	David	Letty	dletty@university.edu	1995

2. Develop a Python program to inserting 5 rows, updating 1 row, deleting 1 row and display the entire table for train_reservation table having attributes: trainno, trainname, from, to, departure, arrival and Class(1A,2A,3A,SL) using oracle Databse.

3. Write a python program to manage the exercise_logs database. Include suitable fields like exercise id (PRIMARY KEY), type of exercise, minutes of doing it, calories burn, heart beat rate. Now try to insert 6 to 7 records into it. Perform the following operations.

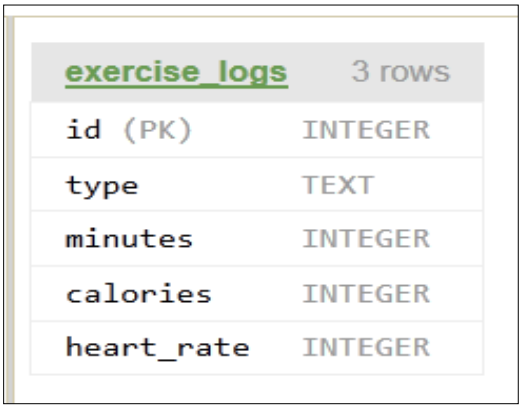
(a) Select the exercise details which help to burn 50 and above calories and also it takes just less than 30 minutes to work out.

(b) Select the exercise details which help to burn 50 and above calories or the heart beat rate is greater than 100.

(c) Display the exercise details which help to burn 50 and above calories.

(d) Find the average calories burnt based on the exercise type.

Database Design:



Sample Input:

id	type	minutes	calories	heart_rate
1	biking	30	115	110
2	biking	10	45	105
3	dancing	15	200	120
4	dancing	15	165	120
5	tree climbing	30	70	90
6	tree climbing	25	72	80
7	rowing	30	70	90
8	hiking	60	80	85

4. Develop a Python Program to create a employee class for managing there details and follow the given conditions,

emp_id	emp_name	emp_designation	emp_address	emp_age	emp_salary	emp_experience

i. Create Procedure for inserting 5 rows.
ii. Create Procedure for updating 1 row.
iii. Create Procedure for deleting 1 row and
iv. Create Function for display the entire table for employee.