INDIAN SCHOOL AL WADI AL KABIR

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| **Class: 11th** **Info.** | **Department: Computer Science** | **Date of submission:****12-01-2020** |
|  | **Topic: Holiday Homework** | **Note: Please study python on 3.7.x version and MySQL for SQL queries.**  |

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| 1 | Which of the following expressions are invalid?1. ‘ 232’ / 34
2. ‘abc’ + 45
3. ‘abc’+’pqr’
4. ‘good’ \*2
 |
|  2 | What values will be generated for the following range function  a. range (5, 15, 3) b. range (8, 2, -1) |
|  3 | What will be the output of the following programming code?  Str1=”Indian School Al Wadi Al Kabir”  print(Str1([14: ])  print(Str1([2:10:2]) print(Str1([ : 8 ]) print(Str1([-13 : 24 ]) |
|  4. | Write the most appropriate **list method** to perform the following tasks considering the given list L: L = [2 ,4 , 6, 8, 10, 12, 14 , 16] 1. To delete 4th element from the list L.
2. To get the position of 10 in the list L.
3. To add the element 9 between 8 and 10 in the list L
4. To removes all elements
 |
|  5. | Write the output of the following: L=[10,20,30,40] L1=[500,600] L2=[35,45] L1.extend(L2)L.insert(2,25)print(L1+L2)print(L1) print(L.index(30)) print(L2\*2) |
|  6 .  | Write SQL commands for the questions from (i) to (xii) and output for (xiii) to (xv) on the basis of table **Table Name : TEACHER**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SNo** | **Name** | **Age** | **Department** | **DateofJoin** | **Salary** | **Gender** |
| 1 | Jugal | 34 | Computer | 1997-01-10 | 12000 | M |
| 2 | Sharmila | 31 | History | 1998-03-24 | 20000 | F |
| 3 | Sandeep | 32 | Science | 1996-12-12 | 30000 | M |
| 4 | Sangeeta | NULL | History | 1999-07-01 | 40000 | F |
| 5 | Rakesh | 42 | English | NULL | 24000 | M |
| 6 | Shyam | 50 | History | 1998-06-27 | 30000 | M |
| 7 | Shiv Om | 30 | Computer | 1997-02-25 | 21000 | M |
| 8 | Shalakha | NULL | Maths | 1997-07-31 | 20000 | F |
| 9 | Junaid | 28 | Science | 2000-06-12 | Null | M |
| 10 | Meena | 25 | English | 2004-11-28 | 15000 | F |

1. Display the details of the teachers whose Salary is below 25000 .
2. Display the Serial Number and Name of the female teachers.
3. Display the different departments.
4. Display the details of teachers in ‘Computer’ and ‘English” department.
5. Display the Name and Department of all male teachers whose salary is above 20000.
6. Display the details of all teachers whose date of join is after ’1999-08-23’.
7. Display name and salary of Female Teachers whose age is not known.
8. Display the Name and Date of Join of the teacher whose name contains the

 Letter ’k’.1. Display the details of all teachers in the ascending order of JoinDate.
2. Display the Name and Department of the male teachers in the descending order of their salary
3. Display the name and salary of all teachers who are not in History department.
4. Display the name ,salary and gender of all teachers whose salary is in the range 20000 to 30000.
5. SELECT NAME,SALARY FROM TEACHER WHERE AGE IS NULL;
6. SELECT NAME,AGE FROM TEACHER WHERE DEPARTMENT =

 “SCIENCE AND AGE <30;1. SELECT NAME FROM TEACHER WHERE NAME LIKE “ S%” ;
 |
|  7. | Write SQL commands for the following questions:Table : **LOAN**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SL** | **NAME** | **AMOUNT** | **INSTALLMENTS** | **RATE** | **STARTDATE** |
| 1 | Suraj Agarwal | 300000 | 36 | 12.00 | 2009-07-19 |
| 2 | Kashish Agarwal | 500000 | 48 | 10.00 | 2008-03-22 |
| 3  | Nafeel Ayaan  | 300000 | 36 | NULL | 2007-03-08 |
| 4  | Akansha Mishra  | 800000 | 60 | 10.25 | 2008-12-06 |
| 5  | Vedansh Shah  | 200000 | 36 | 12.50 | 2010-01-03 |
| 6  | Fahad Arif  | 700000 | 60 | 12.75 | 2008-06-05 |
| 7  | Vidhi Agarwal | 500000 | 48 | NULL | 2008-03-05 |

1. Delete the details of all loans with less than 40 installments.
2. Increase the amount by 10000 for all loans which has “Agarwal” anywhere in their names
3. Change the rate to 0 (zero) where rate is given as NULL.
4. Remove all records which has startdate before 2008-01-01
5. Decrease the installments by 5 for those installments which is more than 50
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