

Name:**SAP ID:**

PS: Write the answer in the question paper itself. If space is not sufficient then use backside of paper to answer and mention question number.

Q1a. Write SQL script to create table **Company with below details given column name, types & Employee Code, text, mandatory & primary key
Employee Name, text, mandatory field
Date of Joining, date, mandatory field
Experience in Years, integer, optional field**

Ans:

Q1b. write insert SQL script to add below 3 records to **Company table.**

1,'Amar', '01-Jan-2022', 1
2,'Mark', '11-Jun-2022', 2
3,'Smita', '12-Jun-2022'

Ans:

Q1c. Write SQL script to update 'Experience in Years' field to 2 for "Smita" in above table.

Ans:

Q1d. Write SQL script to delete the table 'Company'

Ans:

Q2. Write a select query to select top 5 rows from **Friends table below who's FriendName ends with letter 'K' or 'Y'. Arrange the result in descending order.**

Table Name: Friends**Column Name:** **FriendName**

James Clark
Ammy Stark
Ramu Naidu

Vinod Paul
 Pandey Henry
 Guru Prasad
 Rahul Malhotra
 Kanchan Karnik
 Navin Singh

Ans:

Q3. Check below applicable joins that are used while writing sub quires?

- | | | |
|-------------------------------------|--------------------------------------|-------------------------------------|
| <input type="checkbox"/> Outer join | <input type="checkbox"/> Simple Join | <input type="checkbox"/> Cross Join |
| <input type="checkbox"/> Mix Join | <input type="checkbox"/> Equi join | <input type="checkbox"/> Inner Join |

Q4. Write SQL query to find the days left(how many days) in the current month?

Ans:

*Q5. Write a **VIEW** to get sum of **Doses Taken** by each **Month & Year** from table **CovidVaccine** below.*

Table Name: CovidVaccine

Name	Last Vaccination Date	Doses Taken
Shiva	10/Oct/2022	2
Madhu	10/Mar/2022	1
Vinod	10/Jan/2023	2
Sathya	10/Dec/2021	1

Ans:

Q7. Consider a table is having 100 million rows, while inserting and selecting the data, it is taking more time. Choose the solution from below to improve performance of select and insert the data.

- | | | |
|--|--|---|
| <input type="checkbox"/> Normalize the table | <input type="checkbox"/> Create Index | <input type="checkbox"/> Create Foreign key |
| <input type="checkbox"/> Create triggers | <input type="checkbox"/> Disable Locking | <input type="checkbox"/> Enable Transaction |

Q8. Write SQL query to return "Indi" from sentence 'India is my country'.

Ans:

Q9. Explain the purpose of the below code snippet.

PS: Colum Date is Date Data type.

```
SELECT mt.*  
FROM mytable mt  
LEFT OUTER JOIN mytable mt2  
ON (mt.UserId = mt2.UserId AND mt.Date < mt2.Date)
```

Ans:

Unix Questions:

*Q10. Write command to List all the files in a directory filenames starting with **reports***

Ans:

*Q11a. Write shell script **printme.sh** to print **your name** and **Hello HCL!**.*

Ans:

Q11b. Write command to make above shell script executable.

Ans:

Q11c. Write command run this script in background.

Ans:

*Q12. Write a command to list the lines of a log file **application.log** where line containing text **error**.*

Ans:

*Q13. Choose correct commands from below to create a file **lock.txt***

- | | | |
|-----------------|--------------------|-----------------------|
| [] md lock.txt | [] touch lock.txt | [] echo "> lock.txt" |
| [] rm lock.txt | [] ls > lock.txt | [] vi lock.txt |