**1. Create a table EMPLOYEE with following schema:**

(Emp\_no, E\_name, E\_address, E\_ph\_no, Dept\_no, Dept\_name,Job\_id , Salary)

2. Add a new column; HIREDATE to the existing relation.

3. Change the datatype of JOB\_ID from char to varchar2.

4. Change the name of column/field Emp\_no to E\_no.

5. Modify the column width of the job field of emp table

Create a table EMPLOYEE with following schema:

(Emp\_no, E\_name, E\_address, E\_ph\_no, Dept\_no, Dept\_name,Job\_id , Salary)

**Q2.Write SQL queries for following question:**

1. Insert aleast 5 rows in the table.

2. Display all the information of EMP table.

3. Display the record of each employee who works in department D10.

4. Update the city of Emp\_no-12 with current city as Nagpur.

5. Display the details of Employee who works in department MECH.

6. Delete the email\_id of employee James.

7. Display the complete record of employees working in SALES Department.

Q3. Create a table EMPLOYEE with following schema:

(Emp\_no, E\_name, E\_address, E\_ph\_no, Dept\_no, Dept\_name,Job\_id, Designation , Salary)

**3.Write SQL statements for the following query.**

1. List the E\_no, E\_name, Salary of all employees working for MANAGER.

2. Display all the details of the employee whose salary is more than the Sal of any IT PROFF..

3. List the employees in the ascending order of Designations of those joined after 1981.

4. List the employees along with their Experience and Daily Salary.

5. List the employees who are either ‘CLERK’ or ‘ANALYST’ .

6. List the employees who joined on 1-MAY-81, 3-DEC-81, 17-DEC-81,19-JAN-80 .

7. List the employees who are working for the Deptno 10 or20.

8. List the Enames those are starting with ‘S’ .

9. Dislay the name as well as the first five characters of name(s) starting with ‘H’

10.List all the emps except ‘PRESIDENT’ & ‘MGR” in asc order of Salaries.

Q3.Create a data base called **College**

Create a collection “Students” with the following attributes:

StudRollNo, StudName, Grade, Hobbies and DOJ and write the queries for the following

1. Insert atleast 10 documents.

2. Retrieve the documents in a format way (use find() and pretty())

3. Retrieve the student with name “Ram”

4. Retrieve only the student names from all the documents of Student collection

5. Display the StudName, Grade as well as identifier, \_id from the document of the

Students collection where \_id column is 1.

6. Display the StudName and Grade from the document of the Students collection

where \_id column is 1.The \_id field should NOT be displayed.

7. Display only StudName and Grade from all the documents of the Student’s

collection. The Identifier “\_id” should be suppressed and NOT displayed.

8. Find the documents where the Grade is set to “A”.

9. Find the documents where the Grade is NOT set to “C”.

10. Find the documents from the Students collection where Hobbies is set to either

‘Gardening’ or set to ‘Cricket’

11. Find the documents from the Students collection where Hobbies is set to neither

‘Gardening’ or set to ‘Cricket’.

12. Find those documents from the Students collection where the Hobbies is set to

“Skating” and the StudName is set to “Bhim”.

13. Find documents from the Students collection where the StudName begins with “S”.

(use regex also)

14. Find documents from the Students collection where the StudName ends with “m”.

(use regex also)

15. Find documents from the Students collection where the StudName has an “e” in

any position.

16. Insert document for “Aryan David” into the Students collection only if it does not

already exist in the collection. However ,if it already present in the collection, then

update the document with new values(Update his Hobbies from “Skating” to

“Chess”)

17. Add a new field “Address” to \_id:1 and set the value as “Nitte”

18. Add a new field “CollegeName” to all the documents and set the value as

“NMAMIT”.

19. Insert a document “Vamshi” in “Students” collection. Omit providing the value for

the \_id key.

20. Find number of documents in the Students collection.

21. Find the number of documents in the Students collection wherein the Grade is B.

22. Retrieve the first 3 documents from the Students collection wherein the Grade is B.

23. Sort the documents from the Students collection in the ascending order of StudName.

24. Sort the documents from the Students collection in the descending order of \_id

field.

25. Sort the documents from the Students collection first on Grade in ascending order

and then on Hobbies in descending order.