**Instructions:**

Please share your answers filled in line in the Word document. Submit code separately wherever applicable.

Please ensure you update all the details:

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**Topic: Introduction to sql and sql commands**

1. What is SQL, and what are some common uses for it in database management?
2. **Answer:**
3. SQL is the structured query language used for managing and manipulating relational database ,which is used fetch the records from the table,updating the records in a db .
4. What is a foreign key in SQL, and how is it used to establish relationships between tables?
5. **Answer:**
6. A foreign key is a column or a set of columns in a relational database table that refers to the primary key of another table. It establishes a link or relationship between the data in two tables.
7. Here’s how the foreign key establish relationships between tables:
8. 1.primary or foreign key
9. 2.Referential Integrity
10. 3.Types of relationships:
11. A) one-to-one B)one-many C)many to many

**DATABASE CREATE:-**

1. Create a database ‘classroom’

Answers:

create database classroom;

1. Create a table named ‘science\_class’ with the following properties

3 columns(enrollment\_no int, name varchar, science\_marks int)

Answers:

create table employee(

enrollment\_no int,

name varchar(20),

science\_marks int

);

**INSERTING & IMPORTING:-**

1. Insert the following data into science\_class using insert into command

|  |  |  |
| --- | --- | --- |
| 1 | popeye | 33 |
| 2 | olive | 54 |
| 3 | brutus | 98 |

**Answers:**

Insert into science\_class (enrollment\_no,name,science\_marks)VALUES

(1,’popeye’,33),(2,’olive’,54),(3,’brutus’,98)

1. Import data from CSV file ‘student.csv’ attached in resources to science\_class to insert data of next 8 students

**SELECT & WHERE:-**

1. Retrieve all data from the table ‘Science\_Class’

**Answers:**

SELECT \* FROM Science\_Class;

1. Retrieve the name of students who have scored more than 60 marks

**Answers:**

SELECT \* FROM students WHERE Science\_Marks>60;

1. Retrieve all data of students who have scored more than 35 but less than 60 marks

**Anwers:**

SELECT \* FROM students WHERE Science\_Marks>35 AND Science\_Marks<60;

1. Retrieve all other students i.e. who have scored less than or equal to 35 or more than or equal to 60.

**Answers:**

SELECT \* FROM students WHERE Science\_Marks<35 OR Science\_Marks<60;

**UPDATING TABLES:-**

1. Update the marks of popeye to 45

**Answers:**

UPDATE science\_class

SET science\_marks = 45

WHERE name = ‘popeye’;

1. Delete the row containing details of the student named ‘robb’

**Answers:**

DELETE FROM science\_class

WHERE name ='robb’';

1. Rename column ‘name’ to ‘student\_name’

**Answers:**

ALTER TABLE employee

CHANGE COLUMN name student\_name VARCHAR(20);