**SQL command list**

**1. To create a database**

CREATE DATABASE database\_name;

Ex. create database edge35;

**Use database student**

Show databases;

**select database();**

**select user();**

**To describe a table**

**desc table\_name;**

**2. To delete a database**

DROP DATABASE *databasename*;

Ex. DROP DATABASE *student*;

**3. To create a table under a database**

CREATE TABLE *table\_name* (  
  *column1 datatype*,  
  *column2 datatype*,  
  *column3 datatype*,  
    ....  
 );

create table student (

stu\_id varchar(15),

F\_name varchar(30),

L\_name varchar(30),

Dept char(20),

CGPA decimal(4,2));

**4. To delete a table**

DROP TABLE *table\_name*;

Ex. DROP TABLE student;

**5. To change or rename a table name**

ALTER TABLE old\_table\_name RENAME TO new\_table\_name;

**6. To add a new column in a table**

ALTER TABLE *table\_name* ADD *column\_name datatype*;

Ex. ALTER TABLE Customers  
 ADD Email varchar(255);

alter table customerinfo add column cus\_id varchar(10) first;

alter table customerinfor add column cus\_name varchar(45) after customerNo;

**7. To delete a column in a table**

ALTER TABLE *table\_name* DROP COLUMN *column\_name*;

Ex. ALTER TABLE *customers* DROP COLUMN *email*;

**8. To change a column name**

ALTER TABLE *table\_name* change column *old\_name new\_name datatype(size)*;

Or

ALTER TABLE *table\_name* rename column *old\_name to new\_name datatype(size)*;

**9. To change a column type**

ALTER TABLE *table\_name* modify column\_name columntype(size);

**10.                       Insert a record in a table**

insert into student values ("stat-20001","Amir","Shohel","Statistics",3.56);

or

insert into student (stu\_id,f\_name,l\_name,Dept,CGPA) values ("Stat-20002","Mr.","Rahman","Statistics",3.92);

**11.                       Insert a record with selective columns in a table**

insert into student (stu\_id,f\_name,l\_name,Dept) values ("CP-20001","Mr.","Akbor","CPS");

**12.                       Insert multiple records at a time**

insert into student values

     ("Stat-20003","Rx","Ryan","Statistics",3.88),

     ("Stat-20004","Mohd.","Abdulah","Statistics",3.56),

("CP-20002","golam","Azom","CPS",3.65);

13.                       Select all from a table

SELECT \* FROM *table\_name*;

Ex. SELECT \* FROM *student*;

**14.                       Select all from a table with limit**

SELECT \* FROM *student limit 5*;

**15.                       Select last n rows from table**

           select \* from table

         order by column name desc limit rows;

select \* from customer order by customerNo desc limit 3;

**16.                       Select specific columns from a table**

SELECT *column1*, *column2, ...* FROM *table\_name*;

Ex. SELECT *studentId, fname, email* FROM *student*;

**17.                       Select specific columns from a table with limit**

SELECT *column1*, *column2, ...* FROM *table\_name limit 5*;

Ex. SELECT *studentId, fname, email* FROM *student limit 5*;

**18.                       SELECT DISTINCT column1, column2, ...**

     FROM table\_name;

select distinct(s\_id) from student;

      Where the coumn1 and coumn2 must have similar values at

      least twice

select distinct s\_id,f\_name,l\_name,dept from student;

**19.                       If a single column have similar values at least two times then**

     Select distinct(column name) from table name;

select distinct(dept) from student;

**20.                       Where condition in select**

SELECT *column1*, *column2, ...* FROM *table\_name* WHERE *condition*;

       i.            Ex. select \* from student where GPA=3.50;select \* from customer where bill>200;

    ii.            select \* from student where GPA>3.50;

 iii.            select \* from student where GPA<3.50;

 iv.            select \* from student where GPA>=3.50;

v.            select \* from student where GPA<=3.50;

 vi.            select \* from student where GPA!=3.50;

vii.            select \* from student where GPA between 3.50 and 3.75;

viii.            select \* from student where l\_name like "r%r";

 ix.            select \* from student where l\_name like "r%a";

    x.            select \* from student where l\_name like "\_\_\_\_\_";

 xi.            select \* from student where f\_name like "\_\_\_";

xii.            select \* from student where f\_name in ("Md.","Mst.");

**21.                       AND, OR, NOT**

AND Syntax

SELECT *column1*, *column2, ...* FROM *table\_name* WHERE *condition1* AND *condition2* AND *condition3 ...*;

select \* from student where f\_name="Md." and GPA>=3.50;

select \* from student where f\_name="Md." and GPA>=3.50 and l\_name like "r%";

OR Syntax

SELECT *column1*, *column2, ...* FROM *table\_name* WHERE *condition1* OR *condition2* OR *condition3 ...*;

select \* from student where f\_name="Md." or GPA>=3.50;

NOT Syntax

SELECT *column1*, *column2, ...* FROM *table\_name* WHERE NOT *condition*;

Ex. SELECT \* FROM Customers  
 WHERE NOT Country='Germany';

select \* from student where not dept="ICT";

select \* from customer where not customerName="obaidul kader";

**22.                       Order by syntax**

SELECT *column1*, *column2, ...* FROM *table\_name* ORDER BY *column1, column2, ...* ASC|DESC;

select \* from student order by s\_id;

select \* from customer order by bill desc;

**23.                       Null values**

SELECT *column\_names* FROM *table\_name* WHERE *column\_name* IS NULL;

Update null values

update student set l\_name=NULL where GPA=3.50;

select \* from student where l\_name is null;

select \* from student where dept is null;

select \* from student where l\_name is not null;

**24.                       Update commands**

Update in all records in a columns

update student set email="register@mbstu.ac.bd";

update student set email="ashraf@mbstu.ac.bd" where l\_name="Ashraf";

update in multiple columns

update student set s\_id="CP-210001",dept="CPS", email="rakib@mbstu.ac.bd" where f\_name="Mr.";

UPDATE Customers  
 SET ContactName='Juan'  
 WHERE Country='Mexico';

Update customer

Set shopName=“Twelve,Tangail”;