

BCA Part –III
Paper XX: RDBMS
Topic: SQL Syntax

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Some SQL syntax are described below:

1. SQL SELECT Statement

```
SELECT column1, column2....columnN  
FROM table_name;
```

2. SQL DISTINCT Clause

```
SELECT DISTINCT column1, column2....columnN  
FROM table_name;
```

3. SQL WHERE Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE CONDITION;
```

4. SQL AND/OR Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE CONDITION-1 {AND|OR} CONDITION-2;
```

5. SQL IN Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE column_name IN (val-1, val-2,...val-N);
```

6. SQL BETWEEN Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE column_name BETWEEN val-1 AND val-2;
```

7. SQL LIKE Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE column_name LIKE { PATTERN };
```

8. SQL ORDER BY Clause

```
SELECT column1, column2....columnN  
FROM table_name  
WHERE CONDITION  
ORDER BY column_name {ASC|DESC};
```

9. SQL GROUP BY Clause

```
SELECT SUM(column_name)  
FROM table_name  
WHERE CONDITION  
GROUP BY column_name;
```

10. SQL COUNT Clause

```
SELECT COUNT(column_name)  
FROM table_name  
WHERE CONDITION;
```

11. SQL HAVING Clause

```
SELECT SUM(column_name)  
FROM table_name  
WHERE CONDITION  
GROUP BY column_name  
HAVING (arithmetic function condition);
```

12. SQL CREATE TABLE Statement

```
CREATE TABLE table_name(  
column1 datatype,  
column2 datatype,  
column3 datatype,
```

.....
columnN datatype,
PRIMARY KEY(one or more columns)
);

13. SQL DROP TABLE Statement

DROP TABLE table_name;

14. SQL CREATE INDEX Statement

CREATE UNIQUE INDEX index_name
ON table_name (column1, column2,...columnN);

15. SQL DROP INDEX Statement

ALTER TABLE table_name
DROP INDEX index_name;

16. SQL DESC Statement

DESC table_name;

17. SQL TRUNCATE TABLE Statement

TRUNCATE TABLE table_name;

18. SQL ALTER TABLE Statement

ALTER TABLE table_name {ADD|DROP|MODIFY} column_name {data_type};

SQL ALTER TABLE Statement (Rename)

ALTER TABLE table_name RENAME TO new_table_name;

19. SQL INSERT INTO Statement

INSERT INTO table_name(column1, column2....columnN)
VALUES (value1, value2....valueN);

20. SQL UPDATE Statement

UPDATE table_name
SET column1 = value1, column2 = value2....columnN=valueN
[WHERE CONDITION];

21. SQL DELETE Statement

```
DELETE FROM table_name  
WHERE {CONDITION};
```

22. SQL CREATE DATABASE Statement

```
CREATE DATABASE database_name;
```

23. SQL DROP DATABASE Statement

```
DROP DATABASE database_name;
```