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SQL> show databases;

SP2-0158: unknown SHOW option "databases"

SQL> show database;

SP2-0158: unknown SHOW option "database"

SQL> connect system/bsclab

Connected.

SQL> show database;

SP2-0158: unknown SHOW option "database"

SQL> show databases;

SP2-0158: unknown SHOW option "databases"

SQL> create user mscsem1 identified by bsclab;

User created.

SQL> grant all privilages to mscsem1

2 ;

grant all privilages to mscsem1

\*

ERROR at line 1:

ORA-00990: missing or invalid privilege

SQL> grant all privilages to mscsem1;

grant all privilages to mscsem1

\*

ERROR at line 1:

ORA-00990: missing or invalid privilege

SQL> grant all privileges to mscsem1;

Grant succeeded.

SQL> connect mscsem1/bsclab;

Connected.

SQL> select table name from user\_tables;

select table name from user\_tables

\*

ERROR at line 1:

ORA-00936: missing expression

SQL> select table\_name from user\_tables;

no rows selected

SQL> create table table1(roll number(3), NAME VARCHAR(20), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3));

Table created.

SQL> DESC TABLE1;

Name Null? Type

----------------------------------------- -------- ----------------------------

ROLL NUMBER(3)

NAME VARCHAR2(20)

P1 NUMBER(3)

P2 NUMBER(3)

P3 NUMBER(3)

SQL> ALTER TABLE TABLE1 MODIFY ROLL NUMBER(3) PRIMARY KEY;

Table altered.

SQL> INSERT INTO TABLE1 VALUES(561,'Debasis Mandal',60,70,60);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(559,'Subhranil Banerjee',60,50,60);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(509,'Suman Rajak',50,45,50);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(525,'Soham Malakar',50,60,50);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(599,'Dipak Sen',30,40,30);

1 row created.

SQL> SELECT \* FROM TABLE1;

ROLL NAME P1 P2 P3

---------- -------------------- ---------- ---------- ----------

561 Debasis Mandal 60 70 60

559 Subhranil Banerjee 60 50 60

509 Suman Rajak 50 45 50

525 Soham Malakar 50 60 50

599 Dipak Sen 30 40 30

SQL> ALTER TABLE TABLE1 ADD TOT NUMBER(3);

Table altered.

SQL> ALTER TABLE TABLE1 ADD AV NUMBER(3);

Table altered.

SQL> ALTER TABLE TABLE1 ADD DV NUMBER(3);

Table altered.

SQL> ALTER TABLE TABLE1 ADD DV VARCHAR2(5);

ALTER TABLE TABLE1 ADD DV VARCHAR2(5)

\*

ERROR at line 1:

ORA-01430: column being added already exists in table

SQL> DELETE DV;

DELETE DV

\*

ERROR at line 1:

ORA-00942: table or view does not exist

SQL> ALTER TABLE TABLE1 DROP DV ;

ALTER TABLE TABLE1 DROP DV

\*

ERROR at line 1:

ORA-00905: missing keyword

SQL> ALTER TABLE TABLE1 DROP DV;

ALTER TABLE TABLE1 DROP DV

\*

ERROR at line 1:

ORA-00905: missing keyword

SQL> DELETE TABLE TABLE1;

DELETE TABLE TABLE1

\*

ERROR at line 1:

ORA-00903: invalid table name

SQL> DELETE TABLE1;

5 rows deleted.

SQL> create table table1(roll number(3), NAME VARCHAR(20), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3));

create table table1(roll number(3), NAME VARCHAR(20), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3))

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

SQL>

SQL>

SQL> ALTER TABLE TABLE1 MODIFY ROLL NUMBER(3) PRIMARY KEY;

ALTER TABLE TABLE1 MODIFY ROLL NUMBER(3) PRIMARY KEY

\*

ERROR at line 1:

ORA-02260: table can have only one primary key

SQL>

SQL> DELETE TABLE1;

0 rows deleted.

SQL> create table table1(roll number(3), NAME VARCHAR(20), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3));

create table table1(roll number(3), NAME VARCHAR(20), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3))

\*

ERROR at line 1:

ORA-00955: name is already used by an existing object

SQL> DESC TABLE1;

Name Null? Type

----------------------------------------- -------- ----------------------------

ROLL NOT NULL NUMBER(3)

NAME VARCHAR2(20)

P1 NUMBER(3)

P2 NUMBER(3)

P3 NUMBER(3)

TOT NUMBER(3)

AV NUMBER(3)

DV NUMBER(3)

SQL> DROP TABLE1;

DROP TABLE1

\*

ERROR at line 1:

ORA-00950: invalid DROP option

SQL> DROP TABLE TABLE1;

Table dropped.

SQL> create table table1(roll number(3), NAME VARCHAR(20), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3));

Table created.

SQL> ALTER TABLE TABLE1 MODIFY ROLL NUMBER(3) PRIMARY KEY;

Table altered.

SQL>

SQL> INSERT INTO TABLE1 VALUES(561,'Debasis Mandal',60,70,60);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(559,'Subhranil Banerjee',60,50,60);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(509,'Suman Rajak',50,45,50);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(525,'Soham Malakar',50,60,50);

1 row created.

SQL> INSERT INTO TABLE1 VALUES(599,'Dipak Sen',30,40,30);

1 row created.

SQL> SELECT \*FROM TABLE1;

ROLL NAME P1 P2 P3

---------- -------------------- ---------- ---------- ----------

561 Debasis Mandal 60 70 60

559 Subhranil Banerjee 60 50 60

509 Suman Rajak 50 45 50

525 Soham Malakar 50 60 50

599 Dipak Sen 30 40 30

SQL> ALTER TABLE TABLE1 ADD TOT NUMBER(3);

Table altered.

SQL> ALTER TABLE TABLE1 ADD AV NUMBER(3);

Table altered.

SQL> ALTER TABLE TABLE1 ADD DV VARCHAR2(5);

Table altered.

SQL> DESC TABLE1;

Name Null? Type

----------------------------------------- -------- ----------------------------

ROLL NOT NULL NUMBER(3)

NAME VARCHAR2(20)

P1 NUMBER(3)

P2 NUMBER(3)

P3 NUMBER(3)

TOT NUMBER(3)

AV NUMBER(3)

DV VARCHAR2(5)

SQL> UPDATE TABLE1 SET TOT=P1+P2+P3;

5 rows updated.

SQL> UPDATE TABLE1 SET AV=TOT/3;

5 rows updated.

SQL> SELECT ROLL,P1,P2,P3,TOT,AVG FROM TABLE1;

SELECT ROLL,P1,P2,P3,TOT,AVG FROM TABLE1

\*

ERROR at line 1:

ORA-00904: "AVG": invalid identifier

SQL> SELECT ROLL,P1,P2,P3,TOT,AV FROM TABLE1;

ROLL P1 P2 P3 TOT AV

---------- ---------- ---------- ---------- ---------- ----------

561 60 70 60 190 63

559 60 50 60 170 57

509 50 45 50 145 48

525 50 60 50 160 53

599 30 40 30 100 33

SQL> UPDATE TABLE1 SET DV='1ST' WHERE AV>=60;

1 row updated.

SQL> UPDATE TABLE1 SET DV='2ND' WHERE AV>=50 AND AV<60;

2 rows updated.

SQL> UPDATE TABLE1 SET DV='3RD' WHERE AV>=40 AND AV<50;

1 row updated.

SQL> UPDATE TABLE1 SET DV='FAIL' WHERE AV<40;

1 row updated.

SQL> SELECT ROLL,TOT,AV,DV FROM TABLE1;

ROLL TOT AV DV

---------- ---------- ---------- -----

561 190 63 1ST

559 170 57 2ND

509 145 48 3RD

525 160 53 2ND

599 100 33 FAIL

SQL> SELECT COUNT(\*) FROM TABLE1;

COUNT(\*)

----------

5

SQL> SELECT COUNT(\*) FROM TABLE1 WHERE DV='1ST';

COUNT(\*)

----------

1

SQL> SELECT COUNT(\*) FROM TABLE1 WHERE DV='2ND';

COUNT(\*)

----------

2

SQL> SELECT COUNT(\*) FROM TABLE1 WHERE DV='3RD';

COUNT(\*)

----------

1

SQL> SELECT COUNT(\*) FROM TABLE1 WHERE DV='FAIL';

COUNT(\*)

----------

1

SQL> CREATE TABLE TABLE2(EMP\_CODE NUMBER(3) PRIMARY KEY, NAME VARCHAR2(15), BASIC\_PAY NUMBER(6), DA NUMBER(6), HRA NUMBER(6), MEDICAL NUMBER(6),GROSS\_PAY NUMBER(6),PF NUMBER(6), NET\_PAY NUMBER(6));

Table created.

SQL> DESC TABLE2;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMP\_CODE NOT NULL NUMBER(3)

NAME VARCHAR2(15)

BASIC\_PAY NUMBER(6)

DA NUMBER(6)

HRA NUMBER(6)

MEDICAL NUMBER(6)

GROSS\_PAY NUMBER(6)

PF NUMBER(6)

NET\_PAY NUMBER(6)

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(1001,'SHELDON COPPER',150000);

INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(1001,'SHELDON COPPER',150000)

\*

ERROR at line 1:

ORA-01438: value larger than specified precision allowed for this column

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(101,'SHELDON COPPER',150000);

1 row created.

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(102,'LEONARD HOFFSTADER',150000);

INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(102,'LEONARD HOFFSTADER',150000)

\*

ERROR at line 1:

ORA-12899: value too large for column "MSCSEM1"."TABLE2"."NAME" (actual: 18,

maximum: 15)

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(102,'HARRY POTTER',250000);

1 row created.

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(113,'AYAN ROY',10000);

1 row created.

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(283,'KAUSHIK MANNA',28000);

1 row created.

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(555,'GAUTAM SAHA',25000);

1 row created.

SQL> SELECT \*FROM TABLE2;

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

101 SHELDON COPPER 150000

102 HARRY POTTER 250000

113 AYAN ROY 10000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

283 KAUSHIK MANNA 28000

555 GAUTAM SAHA 25000

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(265,'SANDIP SINGHA',14000);

1 row created.

SQL> INSERT INTO TABLE2(EMP\_CODE,NAME,BASIC\_PAY) VALUES(336,'SANJOY GHOSH',25000);

1 row created.

SQL> SELECT \*FROM TABLE2;

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

101 SHELDON COPPER 150000

102 HARRY POTTER 250000

113 AYAN ROY 10000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

283 KAUSHIK MANNA 28000

555 GAUTAM SAHA 25000

265 SANDIP SINGHA 14000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

336 SANJOY GHOSH 25000

7 rows selected.

SQL> UPDATE TABLE SET MEDICAL=1000;

UPDATE TABLE SET MEDICAL=1000

\*

ERROR at line 1:

ORA-00903: invalid table name

SQL> UPDATE TABLE2 SET MEDICAL=1000;

7 rows updated.

SQL> SELECT \*FROM TABLE2;

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

101 SHELDON COPPER 150000 1000

102 HARRY POTTER 250000 1000

113 AYAN ROY 10000 1000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

283 KAUSHIK MANNA 28000 1000

555 GAUTAM SAHA 25000 1000

265 SANDIP SINGHA 14000 1000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

336 SANJOY GHOSH 25000 1000

7 rows selected.

SQL> UPDATE TABLE2 SET DA=(BASIC\_PAY\*(6/100));

7 rows updated.

SQL> SELECT \*FROM TABLE2;

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

101 SHELDON COPPER 150000 9000 1000

102 HARRY POTTER 250000 15000 1000

113 AYAN ROY 10000 600 1000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

283 KAUSHIK MANNA 28000 1680 1000

555 GAUTAM SAHA 25000 1500 1000

265 SANDIP SINGHA 14000 840 1000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

336 SANJOY GHOSH 25000 1500 1000

7 rows selected.

SQL> UPDATE TABLE2 SET HRA=(BASIC\_PAY\*(15/100));

7 rows updated.

SQL> SELECT \*FROM TABLE2;

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

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GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

101 SHELDON COPPER 150000 9000 22500 1000

102 HARRY POTTER 250000 15000 37500 1000

113 AYAN ROY 10000 600 1500 1000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

283 KAUSHIK MANNA 28000 1680 4200 1000

555 GAUTAM SAHA 25000 1500 3750 1000

265 SANDIP SINGHA 14000 840 2100 1000

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

336 SANJOY GHOSH 25000 1500 3750 1000

7 rows selected.

SQL> UPDATE TABLE2 SET HRA=15000 WHERE HRA>=15000;

2 rows updated.

SQL> UPDATE TABLE2 SET GROSS\_PAY=(BASIC\_PAY+DA+HRA+MEDICAL);

7 rows updated.

SQL> UPDATE TABLE2 SET PF=((BASIC\_PAY+DA)\*(8.33/100));

7 rows updated.

SQL> UPDATE TABLE2 SET NET\_PAY=(GROSS\_PAY-PF);

7 rows updated.

SQL> SELECT \* FROM, TABLE2;

SELECT \* FROM, TABLE2

\*

ERROR at line 1:

ORA-00903: invalid table name

SQL> SELECT \* FROM TABLE2;

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

101 SHELDON COPPER 150000 9000 15000 1000

175000 13245 161755

102 HARRY POTTER 250000 15000 15000 1000

281000 22075 258925

113 AYAN ROY 10000 600 1500 1000

13100 883 12217

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

283 KAUSHIK MANNA 28000 1680 4200 1000

34880 2472 32408

555 GAUTAM SAHA 25000 1500 3750 1000

31250 2207 29043

265 SANDIP SINGHA 14000 840 2100 1000

17940 1236 16704

EMP\_CODE NAME BASIC\_PAY DA HRA MEDICAL

---------- --------------- ---------- ---------- ---------- ----------

GROSS\_PAY PF NET\_PAY

---------- ---------- ----------

336 SANJOY GHOSH 25000 1500 3750 1000

31250 2207 29043

7 rows selected.

SQL> SELECT SUM(GROSS\_PAY);

SELECT SUM(GROSS\_PAY)

\*

ERROR at line 1:

ORA-00923: FROM keyword not found where expected

SQL> SELECT SUM(GROSS\_PAY) FROM TABLE2;

SUM(GROSS\_PAY)

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584420

SQL> SELECT SUM(NET\_PAY) FROM TABLE2;

SUM(NET\_PAY)

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540095

SQL> SELECT MAX(NET\_PAY) FROM TABLE2;

MAX(NET\_PAY)

------------

258925

SQL> SELECT MIN(NET\_PAY) FROM TABLE2;

MIN(NET\_PAY)

------------

12217

SQL> CREATE TABLE TABLE3(ROLL NUMBER(3), P1 NUMBER(3), P2 NUMBER(3), P3 NUMBER(3), T NUMBER(3), AV NUMBER(3), GRADE VARCHAR2(2));

Table created.

SQL> ALTER TABLE TABLE3 MODIFY ROLL NUMBER(3) PRIMARY KEY;

Table altered.

SQL> INSERT INTO TABLE3(ROLL, P1, P2, P3) VALUES(1,50,65,77);

1 row created.

SQL> INSERT INTO TABLE3(ROLL, P1, P2, P3) VALUES(2,55,65,87);

1 row created.

SQL> INSERT INTO TABLE3(ROLL, P1, P2, P3) VALUES(3,30,25,17);

1 row created.

SQL> INSERT INTO TABLE3(ROLL, P1, P2, P3) VALUES(4,80,85,97);

1 row created.

SQL> INSERT INTO TABLE3(ROLL, P1, P2, P3) VALUES(5,68,70,49);

1 row created.

SQL> SELECT \* FROM TABLE3;

ROLL P1 P2 P3 T AV GR

---------- ---------- ---------- ---------- ---------- ---------- --

1 50 65 77

2 55 65 87

3 30 25 17

4 80 85 97

5 68 70 49

SQL> UPDATE TABLE3 SET AV=((P1+P2+P3)/3);

5 rows updated.

SQL> SELECT \* FROM TABLE3;

ROLL P1 P2 P3 T AV GR

---------- ---------- ---------- ---------- ---------- ---------- --

1 50 65 77 64

2 55 65 87 69

3 30 25 17 24

4 80 85 97 87

5 68 70 49 62

SQL> UPDATE TABLE3 SET T=P1+P2 WHERE P3<=P1 AND P3<=P2;

2 rows updated.

SQL> UPDATE TABLE3 SET T=P2+P3 WHERE P1<=P2 AND P1<=P3;

3 rows updated.

SQL> UPDATE TABLE3 SET T=P1+P3 WHERE P2<=P1 AND P2<=P1;

1 row updated.

SQL> SELECT \* FROM TABLE;

SELECT \* FROM TABLE

\*

ERROR at line 1:

ORA-00906: missing left parenthesis

SQL> SELECT \* FROM TABLE3;

ROLL P1 P2 P3 T AV GR

---------- ---------- ---------- ---------- ---------- ---------- --

1 50 65 77 142 64

2 55 65 87 152 69

3 30 25 17 47 24

4 80 85 97 182 87

5 68 70 49 138 62

SQL> UPDATE TABLE3 SET AV=T/2;

5 rows updated.

SQL> SELECT \* FROM TABLE3;

ROLL P1 P2 P3 T AV GR

---------- ---------- ---------- ---------- ---------- ---------- --

1 50 65 77 142 71

2 55 65 87 152 76

3 30 25 17 47 24

4 80 85 97 182 91

5 68 70 49 138 69

SQL> UPDATE TABLE3 SET GR='A' WHERE AV>=70;

UPDATE TABLE3 SET GR='A' WHERE AV>=70

\*

ERROR at line 1:

ORA-00904: "GR": invalid identifier

SQL> UPDATE TABLE3 SET GRADE='A' WHERE AV>=70;

3 rows updated.

SQL> UPDATE TABLE3 SET GRADE='B' WHERE AV>=60 AND AV<70;

1 row updated.

SQL> UPDATE TABLE3 SET GRADE='C' WHERE AV>=50 AND AV<60;

0 rows updated.

SQL> UPDATE TABLE3 SET GRADE='D' WHERE AV>=40 AND AV<50;

0 rows updated.

SQL> UPDATE TABLE3 SET GRADE='F' WHERE AV<40;

1 row updated.

SQL> SELECT \* FROM TABLE3;

ROLL P1 P2 P3 T AV GR

---------- ---------- ---------- ---------- ---------- ---------- --

1 50 65 77 142 71 A

2 55 65 87 152 76 A

3 30 25 17 47 24 F

4 80 85 97 182 91 A

5 68 70 49 138 69 B