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PAPER: DBMS

LAB ASSIGNMENT 7

1. a)

```
CREATE TABLE Match(SLNO NUMBER(1),  
Match_Id NUMBER(4) PRIMARY KEY,  
Team1 VARCHAR(20),  
Team2 VARCHAR(20),  
Ground VARCHAR(20),  
Play_Date DATE,  
Winner VARCHAR(10));
```

OUTPUT:

#	Column	Type	Length	Precision	Scale	Nullable	Semantics
1	SLNO	NUMBER	22	1	0	Yes	
2	MATCH_ID	NUMBER	22	4	0	No	
3	TEAM1	VARCHAR2	20			Yes	Byte
4	TEAM2	VARCHAR2	20			Yes	Byte
5	GROUND	VARCHAR2	20			Yes	Byte
6	PLAY_DATE	DATE	7			Yes	
7	WINNER	VARCHAR2	10			Yes	Byte

```

1. b) CREATE TABLE Player(
SLNO NUMBER(6),
Player_Id NUMBER(10) PRIMARY KEY,
Lname VARCHAR(20),
Fname VARCHAR(20),
Country VARCHAR(30),
Yborn NUMBER(4),
Bplace VARCHAR(30),
Ftest VARCHAR(4));

```

OUTPUT:

#	Column	Type	Length	Precision	Scale	Nullable	Semantics
1	SLNO	NUMBER	22	6	0	Yes	
2	PLAYER_ID	NUMBER	22	10	0	No	
3	LNAME	VARCHAR2	20			Yes	Byte
4	FNAME	VARCHAR2	20			Yes	Byte
5	COUNTRY	VARCHAR2	30			Yes	Byte
6	YBORN	NUMBER	22	4	0	Yes	
7	BPLACE	VARCHAR2	30			Yes	Byte
8	FTEST	VARCHAR2	4			Yes	Byte

```

1. c) CREATE TABLE Bowling(
SLNO NUMBER(6),
Match_Id NUMBER(6), FOREIGN KEY (Match_Id) REFERENCES
Match(Match_Id),
Player_Id NUMBER(6), FOREIGN KEY (Player_Id) REFERENCES
Player(Player_Id),
Novers NUMBER(4),
Maidens NUMBER(4),
Nrun_rcv NUMBER(10),
Nwickets NUMBER(4));

```

OUTPUT:

#	Column	Type	Length	Precision	Scale	Nullable
1	SLNO	NUMBER	22	6	0	Yes
2	MATCH_ID	NUMBER	22	6	0	Yes
3	PLAYER_ID	NUMBER	22	6	0	Yes
4	NOVERS	NUMBER	22	4	0	Yes
5	MAIDENS	NUMBER	22	4	0	Yes
6	NRUN_RCV	NUMBER	22	10	0	Yes
7	NWICKETS	NUMBER	22	4	0	Yes

```
1. d) CREATE TABLE Batting(  
SLNO NUMBER(6),  
Match_Id NUMBER(6), FOREIGN KEY (Match_Id) REFERENCES  
Match(Match_Id),  
Player_Id NUMBER(6), FOREIGN KEY (Player_Id) REFERENCES  
Player(Player_Id),  
Nrun_sc NUMBER(6));
```

OUTPUT:

#	Column	Type	Length	Precision	Scale	Nullable
1	SLNO	NUMBER	22	6	0	Yes
2	MATCH_ID	NUMBER	22	6	0	Yes
3	PLAYER_ID	NUMBER	22	6	0	Yes
4	NRUN_SC	NUMBER	22	6	0	Yes

2. a) CREATE SEQUENCE Match_SLNO START WITH 1 INCREMENT BY 1 CACHE 10;

2. b) CREATE SEQUENCE Player_SLNO MAXVALUE 200 START WITH 100 INCREMENT BY -10 CACHE 10;

2. c) CREATE SEQUENCE Bowling_SLNO START WITH 1000 INCREMENT BY 2 CACHE 10;

2. d) CREATE SEQUENCE Batting_SLNO START WITH 501 INCREMENT BY 1 CACHE 10;

3. a)

```
INSERT INTO Match
VALUES (Match_SLNO.NEXTVAL,2475,'Austrilia','India','Melbourn','10-
FEB-08','Team2');
```

```
INSERT INTO Match
VALUES (Match_SLNO.NEXTVAL,2576,'India','Srilanka','Adeliaide','19-
FEB-08','Team1');
```

```
INSERT INTO Match
VALUES (Match_SLNO.NEXTVAL,2677,'Austrilia','India','Sydney','02-MAR-
08','Team1');
```

```
INSERT INTO Match
VALUES (Match_SLNO.NEXTVAL,2778,'Austrilia','Srilanka','Brisbane','04-
MAR-08','Team2');
```

```
INSERT INTO Match
VALUES (Match_SLNO.NEXTVAL,2879,'Srilanka','India','Colombo','27-AUG-
08','Team2');
```

OUTPUT:

SLNO	MATCH_ID	TEAM1	TEAM2	GROUND	PLAY_DATE	WINNER
1	2475	Austrilia	India	Melbourn	10-FEB-08	Team2
2	2576	India	Srilanka	Adeliaide	19-FEB-08	Team1
3	2677	Austrilia	India	Sydney	02-MAR-08	Team1
5	2879	Srilanka	India	Colombo	27-AUG-08	Team2
4	2778	Austrilia	Srilanka	Brisbane	04-MAR-08	Team2

3. b)

```
INSERT INTO Bowling  
VALUES (Bowling_SLNO.NEXTVAL, 2576, 59001, 8, 3, 58, 1);
```

```
INSERT INTO Bowling  
VALUES (Bowling_SLNO.NEXTVAL, 2677, 69001, 10, 1, 27, 3);
```

```
INSERT INTO Bowling  
VALUES (Bowling_SLNO.NEXTVAL, 2879, 49002, 7, 0, 44, 0);
```

```
INSERT INTO Bowling  
VALUES (Bowling_SLNO.NEXTVAL, 2576, 49001, 3, 2, 15, 1);
```

```
INSERT INTO Bowling  
VALUES (Bowling_SLNO.NEXTVAL, 2778, 59001, 7, 1, 20, 5);
```

OUTPUT:

SLNO	MATCH_ID	PLAYER_ID	NOVERS	MAIDENS	NRUN_RCV	NWICKETS
1006	2576	49001	3	2	15	1
1000	2576	59001	8	3	58	1
1002	2677	69001	10	1	27	3
1008	2778	59001	7	1	20	5
1004	2879	49002	7	0	44	0

3. c)

```
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2677,49001,60);  
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2778,59002,71);  
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2879,59001,60);  
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2778,69002,17);  
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2879,59002,45);  
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2576,49001,36);  
INSERT INTO Batting VALUES (Batting_SLNO.NEXTVAL,2475,49002,72);
```

OUTPUT:

SLNO	MATCH_ID	PLAYER_ID	NRUN_SC
502	2778	59002	71
503	2879	59001	60
505	2879	59002	45
501	2677	49001	60
504	2778	69002	17
506	2576	49001	36
507	2475	49002	72

3. d)

```
INSERT INTO Player
VALUES (Player_SLNO.NEXTVAL, 49001, 'Tendulkar', 'Sachin', 'India', 1973, 'Mumbai', 1986);
```

```
INSERT INTO Player
VALUES (Player_SLNO.NEXTVAL, 49002, 'Dravid', 'Rahul', 'India', 1973, 'Indore', 1996);
```

```
INSERT INTO Player
VALUES (Player_SLNO.NEXTVAL, 59001, 'Vass', 'Chaminda', 'Srilanka', 1974, 'Mattumagala', 1994);
```

```
INSERT INTO Player
VALUES (Player_SLNO.NEXTVAL, 59002, 'Jayasuriya', 'Sanath', 'Srilanka', 1969, 'Matara', 1991);
```

```
INSERT INTO Player
VALUES (Player_SLNO.NEXTVAL, 69001, 'Lee', 'Brett', 'Australilia', 1976, 'Wollongong', 1999);
```

```
INSERT INTO Player
VALUES (Player_SLNO.NEXTVAL, 69002, 'Symonds', 'Andrew', 'Australilia', 1975, 'Birmingham', 2004);
```

OUTPUT:

SLNO	PLAYER_ID	LNAME	FNAME	COUNTRY	YBORN	BPLACE	FTES
100	49001	Tendulkar	Sachin	India	1973	Mumbai	1986
90	49002	Dravid	Rahul	India	1973	Indore	1996
80	59001	Vass	Chaminda	Srilanka	1974	Mattumagala	1994
70	59002	Jayasuriya	Sanath	Srilanka	1969	Matara	1991
60	69001	Lee	Brett	Australilia	1976	Wollongong	1999
50	69002	Symonds	Andrew	Australilia	1975	Birmingham	2004

4. a) `SELECT Ground FROM Match WHERE Match_Id IN (SELECT Match_Id FROM Batting WHERE Player_Id IN(SELECT Player_Id FROM Player WHERE FName LIKE 'S%'));`

OUTPUT:

GROUND
Adeliaide
Sydney
Colombo
Brisbane

4. b) `SELECT Player_Id FROM Bowling WHERE Match_Id=2576 AND Player_Id NOT IN (SELECT Player_Id FROM Batting WHERE Match_Id=2576);`

OUTPUT:

PLAYER_ID
59001

4. c) `SELECT Player_ID, AVG(Nrun_sc) FROM Batting WHERE Player_Id IN (SELECT Player_Id FROM Player WHERE Country = 'India') GROUP BY Player_Id;`

OUTPUT:

PLAYER_ID	AVG(NRUN_SC)
49001	48
49002	72

4. d) `SELECT FName,Lname,Ground FROM Player JOIN Bowling ON Player.Player_Id=Bowling.Player_Id JOIN Match ON Match.Match_Id=Bowling.Match_Id WHERE Bowling.Novers =(SELECT Max(Novers) FROM Bowling);`

OUTPUT:

FNAME	LNAME	GROUND
Brett	Lee	Sydney

5. a) SELECT SUM(Nrun_sc) AS TOTAL_SCORE FROM Batting WHERE
Player_Id =(SELECT Player_Id FROM Player WHERE Ftest=1991);

OUTPUT:

TOTAL_SCORE
116

5. b) SELECT Fname,Lname,Nwickets FROM Player JOIN Bowling ON
Player.Player_Id=Bowling.Player_Id WHERE Yborn=(SELECT MAX(Yborn)
FROM Player);

OUTPUT:

FNAME	LNAME	NWICKETS
Brett	Lee	3

5. c) SELECT Fname,Lname FROM Player WHERE Player_Id IN(SELECT
Player_Id FROM Batting GROUP BY Player_Id HAVING
Count(Player_Id)=1);

OUTPUT:

FNAME	LNAME
Rahul	Dravid
Chaminda	Vass
Andrew	Symond

5. d) SELECT Fname,Lname,Ground FROM Player JOIN Bowling ON
Player.Player_Id=Bowling.Player_Id JOIN Match ON
Match.Match_Id=Bowling.Match_Id WHERE Nwickets IN (SELECT
MAX(Nwickets) FROM Bowling);

OUTPUT:

FNAME	LNAME	GROUND
Chaminda	Vass	Brisbane

6. a) SELECT Ground FROM Match JOIN Batting ON
Match.Match_Id=Batting.Match_Id JOIN Player ON
Player.Player_Id=Batting.Player_Id WHERE Fname='Sachin' AND
Lname='Tendulkar' AND Nrun_Sc IN (SELECT Max(Nrun_Sc) FROM Batting
WHERE Player_Id IN (SELECT Player_Id FROM Player WHERE
Fname='Sachin' AND Lname='Tendulkar'));

OUTPUT:

GROUND
Sydney

6. b) SELECT Fname,Lname FROM Player JOIN Bowling ON
Player.Player_Id=Bowling.Player_ID WHERE Country='Srilanka' AND
Maidens IN (SELECT Maidens FROM Bowling GROUP BY Maidens HAVING
Count(Maidens)>=2);

OUTPUT:

FNAME	LNAME
Chaminda	Vass

6. c) SELECT SUM(Nwickets) AS NUMBER_OF_WICKETS FROM Bowling WHERE
Player_Id IN (SELECT Player_Id FROM Player WHERE
Bplace='Mattumagala');

OUTPUT:

NUMBER_OF_WICKETS
6

6. d) SELECT Fname,Lname FROM Player WHERE Player_Id IN (SELECT
Player_ID FROM (SELECT Match_Id,Player_Id FROM Batting UNION SELECT
Match_Id,Player_Id FROM Bowling) GROUP BY Player_Id HAVING
Count(Player_Id)>1);

OUTPUT:

FNAME	LNAME
Sachin	Tendulkar
Rahul	Dravid
Chaminda	Vass
Sanath	Jayasuriya

