DM PRACTICAL ASSIGNMENT

1. Roll no. : A001 , A030
2. Topic: Exam Registration Management System
3. Table Names List (in relational schema format) shown below:

Table 1: EXAM_REGISTRATION

SAPID	ROLL_NO	STUDENT_SNAME	STUDENT_FNAME	DOB	AGE	PH_N0	EXAMID	EXAM_NAME	EXAM_PRICE

Table 2: EXAM_DATE

SAPID	EXAMID	EXAM_NAME	EXAM_DATE	DAY	EXAM_TIME	DURATION

Table 3: EXAM_DOC

SAPID	EXAMID	VERIF_DOC	CITIZENSHIP	BOARD_RESULT	BOARD

Table 4: EXAM_RECEIPT

SAPID	ROLL_NO	STUDENT_NAME	EXAMID	EXAM_NAME	RECEIPT_NO	FEES	MOP	STATUS	PAYMENT_DATE

4.

EXAM_REGISTRATION		
Column	**Attribute Type**	**DataType**
SAPID	Primary Key	INT / Number
ROLL_NO	Simple	VARCHAR
STUDENT_SNAME	Composite	VARCHAR
STUDENT_FNAME	Composite	VARCHAR
DOB	Stored	DATE
AGE	Derived	INT / Number
PH_NO	Simple	INT / Number
EXAMID	Simple	INT / Number
EXAM_NAME	Simple	VARCHAR
EXAM_PRICE	Simple	INT / Number
EXAM_DATE		
SAPID	Foreign Key	INT / Number

EXAMID	Primary Key	INT / Number
EXAM_NAME	Simple	VARCHAR
EXAM_DATE	Stored	DATE
DAY	Derived	VARCHAR
EXAM_TIME	Stored	VARCHAR
DURATION	Derived	INT / Number
EXAM_DOC		
SAPID	Foreign Key	INT / Number
EXAMID	Primary Key & Foreign Key	INT / Number
VERIF_DOC	Composite	VARCHAR
CITIZENSHIP	Simple	VARCHAR
BOARD_RESULT	Simple	INT / Number
BOARD	Simple	VARCHAR
EXAM_RECEIPT		
SAPID	Primary Key & Foreign Key	INT / Number
ROLL_NO	Simple	VARCHAR
STUDENT_SNAME	Composite	VARCHAR
EXAMID	Foreign Key	INT / Number
EXAM_NAME	Simple	VARCHAR
RECEIPT_NO	Simple	INT / Number
FEES	Simple	INT / Number
MOP	Simple	VARCHAR
STATUS	Simple	VARCHAR
PAYMENT_DATE	Composite	DATE

5. TABLE 1: **EXAM_REGISTRATION**

Codes:

```
create table EXAM_REGISTRATION(
SAPID INT primary key,
ROLL_NO VARCHAR(20) not null,
STUDENT_SNAME VARCHAR(20) not null,
STUDENT_FNAME VARCHAR(20) not null,
DOB DATE not null,
AGE INT not null,
PH_N0 INT not null,
EXAMID INT not null,
EXAM_NAME VARCHAR(100) default 'Data Management',
EXAM_PRICE INT default '150'
)

insert all
into EXAM_REGISTRATION values(75252,'A001','Gupta','Siya','12-22-2002', 19,
09833487622,076, default, default)
into EXAM_REGISTRATION values(75253,'A030','Jain','Aarushi','10-16-2002',19,09137893408,
087, default, default)
into EXAM_REGISTRATION values(75254,'A022','Bhatia','Avani', '08-28-2001', 20,
08879114442,068, default, default)
into EXAM_REGISTRATION values(75255,'A056','Jain','Priyangi', '11-29-2002', 19
,07654893421,054, default, default)
into EXAM_REGISTRATION values(75256,'A061','Doshi','Raunit', '05-31-2000', 21,
09819909262,035, default, default)
select * from dual
```

Output:

```
select * from EXAM_REGISTRATION
```

Results | Explain | Describe | Saved SQL | History

SAPID	ROLL_NO	STUDENT_SNAME	STUDENT_FNAME	DOB	AGE	PH_N0	EXAMID	EXAM_NAME	EXAM_PRICE
75252	A001	Gupta	Siya	12/22/2002	19	9833487622	76	Data Management	150
75253	A030	Jain	Aarushi	10/16/2002	19	9137893408	87	Data Management	150
75254	A022	Bhatia	Avani	08/28/2001	20	8879114442	68	Data Management	150
75255	A056	Jain	Priyangi	11/29/2002	19	7654893421	54	Data Management	150
75256	A061	Doshi	Raunit	05/31/2000	21	9819909262	35	Data Management	150

5 rows returned in 0.02 seconds Download

Table 2: **EXAM_DATE**

Codes:

```
create table EXAM_DATE(
SAPID INT not null,
EXAMID INT primary key,
EXAM_NAME VARCHAR(100) default 'Data Management',
EXAM_DATE DATE default '04-25-2022',
DAY VARCHAR(20) default 'Monday',
EXAM_TIME VARCHAR(20) default '10:30 am- 1:00 pm',
DURATION VARCHAR(20) default '2.5 hrs',
Foreign key (SAPID) REFERENCES EXAM_REGISTRATION(SAPID)
)

insert all
into EXAM_DATE values(75252,076, default, default, default, default, default)
into EXAM_DATE values(75253,087, default, default, default, default, default)
into EXAM_DATE values(75254,068, default, default, default, default, default)
into EXAM_DATE values(75255,054, default, default, default, default, default)
into EXAM_DATE values(75256,035, default, default, default, default, default)
select * from dual
```

Output:

```
select * from EXAM_DATE
```

Results | Explain | Describe | Saved SQL | History

SAPID	EXAMID	EXAM_NAME	EXAM_DATE	DAY	EXAM_TIME	DURATION
75252	76	Data Management	04/25/2022	Monday	10:30 am- 1:00 pm	2.5 hrs
75253	87	Data Management	04/25/2022	Monday	10:30 am- 1:00 pm	2.5 hrs
75254	68	Data Management	04/25/2022	Monday	10:30 am- 1:00 pm	2.5 hrs
75255	54	Data Management	04/25/2022	Monday	10:30 am- 1:00 pm	2.5 hrs
75256	35	Data Management	04/25/2022	Monday	10:30 am- 1:00 pm	2.5 hrs

5 rows returned in 0.01 seconds Download

Table 3: **EXAM_DOC**

Codes:

```
create table EXAM_DOC(
SAPID INT not null,
EXAMID INT primary key,
VERIF_DOC VARCHAR(50) not null,
Citizenship VARCHAR(50) not null,
BOARD_RESULT VARCHAR(20) NOT null,
BOARD VARCHAR(50),
Foreign key (EXAMID) REFERENCES EXAM_DATE(EXAMID),
Foreign key (SAPID) REFERENCES EXAM_REGISTRATION(SAPID)
)

insert all
into EXAM_DOC values(75252,076, 'Aadhaar Card', 'Indian', '92%' , 'ISC')
into EXAM_DOC values(75253,087, 'Passport', 'NRI', '90.13%', 'HSC')
into EXAM_DOC values(75254,068, 'Voters ID', 'Indian','88%', 'CBSE')
into EXAM_DOC values(75255,054, 'PAN-CARD', 'Indian', '94%', 'A-LEVELS')
into EXAM_DOC values(75256,035, 'Passport', 'NRI', '85.78%', 'IGCSE')
select * from dual
```

Output:

```
select * from EXAM_DOC
```

Results | Explain | Describe | Saved SQL | History

SAPID	EXAMID	VERIF_DOC	CITIZENSHIP	BOARD_RESULT	BOARD
75252	76	Aadhaar Card	Indian	92%	ISC
75253	87	Passport	NRI	90.13%	HSC
75254	68	Voters ID	Indian	88%	CBSE
75255	54	PAN-CARD	Indian	94%	A-LEVELS
75256	35	Passport	NRI	85.78%	IGCSE

5 rows returned in 0.01 seconds Download

Table 4: **EXAM_RECEIPT**

Codes:

```
create table EXAM_RECEIPT(
SAPID INT primary key,
ROLL_NO VARCHAR(20) NOT NULL,
Foreign key (EXAMID) REFERENCES EXAM_DATE(EXAMID),
Foreign key (SAPID) REFERENCES EXAM_REGISTRATION(SAPID),
STUDENT_NAME VARCHAR(20) not null,
EXAMID INT not null,
EXAM_NAME VARCHAR(50) default 'Data Management',
RECEIPT_NO INT NOT NULL,
FEES VARCHAR(20) NOT NULL,
MOP VARCHAR(20) NOT NULL,
STATUS VARCHAR(30) NOT NULL,
PAYMENT_DATE DATE NOT NULL
```

)

```
insert all
into EXAM_RECEIPT values(75252,'A001','Siya Gupta',076, default, 001546, 150, 'UPI', 'Paid',
'04-01-2022')
into EXAM_RECEIPT values(75253,'A030','Aarushi Jain', 087, default, 000345, 150, 'Cash',
'Paid','04-12-2022')
into EXAM_RECEIPT values(75254,'A022','Avani Bhatia',068, default, 009456, 150, 'Net Banking',
'Outstanding', '03-30-2022')
into EXAM_RECEIPT values(75255,'A056','Priyangi Jain', 054, default,007657,150, 'Cash',
'Paid','04-07-2022')
into EXAM_RECEIPT values(75256,'A061','Raunit Doshi', 035, default,018734,
150,'UPI','Outstanding', '03-17-2022')
select * from dual
```

Output:

```
select * from EXAM_RECEIPT
```

Results | Explain | Describe | Saved SQL | History

SAPID	ROLL_NO	STUDENT_NAME	EXAMID	EXAM_NAME	RECEIPT_NO	FEES	MOP	STATUS	PAYMENT_DATE
75252	A001	Siya Gupta	76	Data Management	1546	150	UPI	Paid	04/01/2022
75253	A030	Aarushi Jain	87	Data Management	345	150	Cash	Paid	04/12/2022
75254	A022	Avani Bhatia	68	Data Management	9456	150	Net Banking	Outstanding	03/30/2022
75255	A056	Priyangi Jain	54	Data Management	7657	150	Cash	Paid	04/07/2022
75256	A061	Raunit Doshi	35	Data Management	18734	150	UPI	Outstanding	03/17/2022

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