

(a) Create the following table: DEPARTMENT

Column Name	Data Type	Size	Constraints
DeptCode	Varchar2	4	Primary key
DeptName	Varchar2	50	Not null
Student allotted	Number	4	Not null

Code:

```
CREATE TABLE DEPARTMENT(  
    DeptCode VARCHAR2(4) PRIMARY KEY,  
    DeptName VARCHAR2(50) NOT NULL,  
    Student_Allotted NUMBER(4) NOT NULL  
);
```

Output:

```
Table created.
```

(b) Display the structure of the table Department

Code:

```
DESC DEPARTMENT;
```

Output:

```
SQL> DESC DEPARTMENT;  
Name                               Null?    Type  
-----  
DEPTCODE                           NOT NULL VARCHAR2(4)  
DEPTNAME                           NOT NULL VARCHAR2(50)  
STUDENT_ALLOTTED                   NOT NULL NUMBER(4)
```

DEPARTMENT				
Table	Data	Indexes	Model	Constraints
Grants	Statistics	UI Defaults	Triggers	Dependencies
SQL				
Add Column	Modify Column	Rename Column	Drop Column	Rename
Copy	Drop	Truncate	Create Lookup Table	
Column Name	Data Type	Nullable	Default	Primary Key
DEPTCODE	VARCHAR2(4)	No	-	1
DEPTNAME	VARCHAR2(50)	No	-	-
STUDENT_ALLOTTED	NUMBER(4,0)	No	-	-
1 - 3				

(c) Drop a table.

Code:

```
DROP TABLE DEPT;
```

Output:

```
SQL> DROP TABLE DEPT;
```

Table dropped.



(d) Insert data into table

Code:

```
INSERT INTO DEPARTMENT VALUES('CSE','Computer Science and Engineering',120);  
INSERT INTO DEPARTMENT VALUES('ECE','Electronics and Communication  
Engineering',120);  
INSERT INTO DEPARTMENT VALUES('IT','Information Technology',60);  
INSERT INTO DEPARTMENT VALUES('EE','Electronic Engineering',60);
```





(e) Display data into table department

Code:

```
SELECT * FROM DEPARTMENT;
```

Output:

DEPT	DEPTNAME	STUDENT_ALLOTTED
CSE	Computer Science and Engineering	120
ECE	Electronics and Communication Engineering	120
IT	Information Technology	60
EE	Electronic Engineering	60

DEPARTMENT			
Table	Data	Indexes	Model
Constraints	Grants	Statistics	UI Defaults
Triggers	Dependencies	SQL	
Query	Count Rows	Insert Row	
EDIT	DEPTCODE	DEPTNAME	STUDENT_ALLOTED
	CSE	Computer Science and Engineering	120
	ECE	Electronics and Communication Engineering	120
	IT	INFORMATION TECHNOLOGY	60
	EE	ELECTRICAL ENGINEERING	60
row(s) 1 - 4 of 4			
Download			

(f) Create the following table:STUDENT

RollNo	Number	6	Primary Key
Name	Varchar2	15	Not null
Address	Varchar2	15	Not null
PhoneNo	Number	10	
YearOfAdm	Number	4	Not null
DeptCode	Varchar2	4	Not null
Semester	Varchar2	4	Not null
BirthDate	Date		Not null

Code:

```
CREATE TABLE STUDENT(  
    RollNo NUMBER(6) PRIMARY KEY,  
    Name VARCHAR2(15) NOT NULL,  
    Address VARCHAR2(15) NOT NULL,  
    PhoneNo NUMBER(10),  
    YearOfAdm NUMBER(4) NOT NULL,  
    DeptCode VARCHAR2(4) NOT NULL,  
    Semester VARCHAR2(4) NOT NULL,  
    BirthDate DATE NOT NULL  
);
```

(g) Display the structure of the table Student.

Code:

```
DESC STUDENT;
```

Output:

```
SQL> DESC STUDENT;  
Name                               Null?     Type  
-----  
ROLLNO                             NOT NULL  NUMBER(6)  
NAME                                NOT NULL  VARCHAR2(15)  
ADDRESS                             NOT NULL  VARCHAR2(15)  
PHONENO                             NULL      NUMBER(10)  
YEAROFADM                           NOT NULL  NUMBER(4)  
DEPTCODE                            NOT NULL  VARCHAR2(4)  
SEMESTER                            NOT NULL  VARCHAR2(4)  
BIRTHDATE                           NOT NULL  DATE
```

(h) Insert data into table

Code:

```
ALTER TABLE STUDENT MODIFY Address VARCHAR(20);  
ALTER TABLE STUDENT MODIFY Name VARCHAR(20);
```

```
INSERT INTO STUDENT VALUES(1001, 'ANKIT DAS', 'VIP Road, Kolkata', 9830675221, 2017,  
'CSE', 'SEM5', TO_DATE('10-02-1999', 'DD-MM-YYYY'));
```

```
INSERT INTO STUDENT VALUES(1002, 'MOINAK GHOSH', 'MG Road, Kolkata', 7988822201,  
2015, 'CSE', 'SEM5', TO_DATE('01-05-1998', 'DD-MM-YYYY'));
```

```
INSERT INTO STUDENT VALUES(1003, 'PARIMAL KUMAR', 'NSB Road, Birati', 8099922211,  
2016, 'CSE', 'SEM5', TO_DATE('17-03-2001', 'DD-MM-YYYY'));
```

INSERT INTO STUDENT VALUES(2001, 'SANCHITA SINGH', 'Tegharia, Kolkata',7667880010, 2017, 'ECE', 'SEM5', TO_DATE('20-10-2000', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(2002, 'ANANYA BISWAS', 'MG Road, Howrah', 9830675221, 2017, 'ECE', 'SEM5', TO_DATE('05-11-2001', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(2101, 'ASHISH KUMAR', 'Baguiati, Kokata',6544332121, 2017, 'ECE', 'SEM5', TO_DATE('17-09-2001', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(1029, 'NAITIK PRASAD', 'KGR path, Belgharia',NULL, 2018, 'CSE', 'SEM3', TO_DATE('08-10-2003', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(4011, 'SATNAM JYOTI', 'Garia, Kolkata', 8933322125, 2018, 'IT', 'SEM3', TO_DATE('21-09-2002', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(3002, 'SAURAV ROY', 'Chandannagar', NULL, 2017, 'EE', 'SEM5', TO_DATE('23-08-2000', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(3005, 'MOHAMMAD AZIB', 'Saltlake', 7910000666, 2017, 'EE', 'SEM5', TO_DATE('20-05-2001', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(2004, 'NIKHIL SINGH', 'Central Howrah', NULL, 2016, 'ECE', 'SEM5', TO_DATE('21-06-1999', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(1023, 'SAMPRIKTA BISWAS', 'Barrackpore', 8877565643, 2018, 'CSE', 'SEM3', TO_DATE('13-12-2003', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(1011, 'RAHUL KHAN', 'Jadavpur, Kolkata', NULL, 2017, 'CSE', 'SEM5', TO_DATE('07-07-2001', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(1060, 'SHUBHAM', 'Sealdah, Kolkata', 9833221098, 2017, 'CSE', 'SEM3', TO_DATE('09-08-2003', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(2009, 'GAURAV PRAKASH','Saltlake', NULL, 2018, 'ECE', 'SEM3', TO_DATE('10-04-2004', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(3008, ' RAHUL JOSHI', 'AB block, Saltlake', 9980765123, 2018, 'EE', 'SEM3', TO_DATE('20-06-2003', 'DD-MM-YYYY'));

INSERT INTO STUDENT VALUES(4200, 'MRIGENDRA','Belur,Howrah', NULL, 2019, 'IT', 'SEM1', TO_DATE('01-07-2004', 'DD-MM-YYYY'));

```
INSERT INTO STUDENT VALUES(1500, 'SUBARNA MITRA','Gariahat, Kolkata', 6987654322,
2017, 'CSE', 'SEM3', TO_DATE('02-01-2003', 'DD-MM-YYYY'));
```

```
INSERT INTO STUDENT VALUES(1101, 'AMARITA DEV','Gariahat, Kolkata', NULL, 2019,
'CSE', 'SEM1', TO_DATE('06-01-2004', 'DD-MM-YYYY'));
```

(i) Display data of table Student

Code:

```
SELECT * FROM STUDENT;
```

Output:

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
1001	ANKIT DAS	VIP Road, Kolkata	9830675221	2017	CSE
SEM5	10-FEB-99				
1002	MOINAK GHOSH	MG Road, Kolkata	7988822201	2015	CSE
SEM5	01-MAY-98				
1003	PARIMAL KUMAR	NSB Road, Birati	8099922211	2016	CSE
SEM5	17-MAR-01				

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
2001	SANCHITA SINGH	Tegharia, Kolkata	7667880010	2017	ECE
SEM5	20-OCT-00				
2002	ANANYA BISWAS	MG Road, Howrah	9830675221	2017	ECE
SEM5	05-NOV-01				
2101	ASHISH KUMAR	Baguiati, Kokata	6544332121	2017	ECE
SEM5	17-SEP-01				
















ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
1029	NAITIK PRASAD	KGR path, Belgharia		2018	CSE
SEM3	08-OCT-03				
4011	SATNAM JYOTI	Garia, Kolkata	8933322125	2018	IT
SEM3	21-SEP-02				
3002	SAURAV ROY	Chandannagar		2017	EE
SEM5	23-AUG-00				

ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
SEM5	3005 MOHAMMAD AZIB 20-MAY-01	Saltlake	7910000666	2017	EE
SEM5	2004 NIKHIL SINGH 21-JUN-99	Central Howrah		2016	ECE
SEM3	1023 SAMPRIKTA BISWAS 13-DEC-03	Barrackpore	8877565643	2018	CSE
ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
SEM5	1011 RAHUL KHAN 07-JUL-01	Jadavpur, Kolkata		2017	CSE
SEM3	1060 SHUBHAM 09-AUG-03	Sealdah, Kolkata	9833221098	2017	CSE
SEM3	2009 GAURAV PRAKASH 10-APR-04	Saltlake		2018	ECE
ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
SEM3	3008 RAHUL JOSHI 20-JUN-03	AB block, Saltlake	9980765123	2018	EE
SEM1	4200 MRIGENDRA 01-JUL-04	Belur, Howrah		2019	IT
SEM3	1500 SUBARNA MITRA 02-JAN-03	Gariahat, Kolkata	6987654322	2017	CSE
ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPT
SEME	BIRTHDATE				
SEM1	1101 AMARITA DEV 06-JAN-04	Gariahat, Kolkata		2019	CSE

STUDENT

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

[Query](#) [Count Rows](#) [Insert Row](#)

EDIT	ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPTCODE	SEMESTER	BIRTHDATE
	1001	ANKIT DAS	VIP Road, Kolkata	9830675221	2017	CSE	SEM5	10-FEB-99
	1002	MOINAK GHOSH	MG Road, Kolkata	7988822201	2015	CSE	SEM5	01-MAY-98
	1003	PARIMAL KUMAR	NSB Road, Birati	8099922211	2016	CSE	SEM5	17-MAR-01
	2001	SANCHITA SINGH	Tegharia, Kolkata	7667880010	2017	ECE	SEM5	20-OCT-00
	2002	ANANYA BISWAS	MG Road, Howrah	9830675221	2017	ECE	SEM5	05-NOV-01
	2101	ASHISH KUMAR	Baguiati, Kokata	6544332121	2017	ECE	SEM5	17-SEP-01
	1029	NAITIK PRASAD	KGR path, Belgharia	-	2018	CSE	SEM3	08-OCT-03
	4011	SATNAM JYOTI	Garia, Kolkata	8933322125	2018	IT	SEM3	21-SEP-02
	3002	SAURAV ROY	Chandannagar	-	2017	EE	SEM5	23-AUG-00
	3005	MOHAMMAD AZIB	Saltlake	7910000666	2017	EE	SEM5	20-MAY-01
	2004	NIKHIL SINGH	Central Howrah	-	2016	ECE	SEM5	21-JUN-99
	1023	SAMPRIKTA BISWAS	Barrackpore	8577565643	2018	CSE	SEM3	13-DEC-03
	1011	RAHUL KHAN	Jadavpur, Kolkata	-	2017	CSE	SEM5	07-JUL-01
	1060	SHUBHAM	Sealdah, Kolkata	9833221098	2017	CSE	SEM3	09-AUG-03
	2009	GAURAV PRAKASH	Saltlake	-	2018	ECE	SEM3	10-APR-04

EDIT	ROLLNO	NAME	ADDRESS	PHONENO	YEAROFADM	DEPTCODE	SEMESTER	BIRTHDATE
	3008	RAHUL JOSHI	AB block, Saltlake	9980765123	2018	EE	SEM3	20-JUN-03
	4200	MRI/CENDRA	Belur,Howrah	-	2019	IT	SEM1	01-JUL-04
	1500	SUBARNA MITRA	Gariahat, Kolkata	6987654322	2017	CSE	SEM3	02-JAN-03
	1101	AMARITA DEV	Gariahat, Kolkata	-	2019	CSE	SEM1	06-JAN-04
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