01.

Observe the given Table TEACHER and give the output of question (i) and (ii)

TEACHER_CODE	TEACHER_NAME	DOJ
T001	ANAND	2001-01-30
T002	AMIT	2007-09-05
T003	ANKIT	2007-09-20
T004	BALBIR	2010-02-15
T005	JASBIR	2011-01-20
T006	KULBIR	2008-07-11

(i) SELECT TEACHER_NAME,DOJ FROM TEACHER WHERE TEACHER_NAME LIKE '%I%'
(ii) SELECT * FROM TEACHER WHERE DOJ LIKE '%-09-%';

02.

Write SQL queries for (i) to (iv) and find outputs for SQL queries (v) to (viii) which are based on tables

TABLE : ACCOUNT

ANO	ANAME	ADDRESS
101	Nirja Singh	Bangalore
102	Rohan Gupta	Chennai
103	Ali Reza	Hyderabad
104	Rishabh Jain	Chennai
105	Simran Kaur	Chandigarh

TABLE: TRANSACT

TRNO	ANO	AMOUNT	TYPE	DOT
T001	101	2500	Withdraw	2017-12-21
T002	103	3000	Deposit	2017-06-01
T003	102	2000	Withdraw	2017-05-12
T004	103	1000	Deposit	2017-10-22
T005	102	12000	Deposit	2017-11-06

(i)   To display details of all transactions of TYPE Withdraw from TRANSACT table
(ii) To display ANO and AMOUNT of all Deposit and Withdrawals done in month of 'May' 2017 from table TRANSACT
(iii) To display first date of transaction (DOT) from table TRANSACT for Account having ANO as 102
(iv) To display ANO, ANAME, AMOUNT and DOT of those persons from ACCOUNT and TRANSACT table who have done transaction less than or equal to 3000
(v)   SELECT ANO, ANAME FROM ACCOUNT
      WHERE ADDRESS NOT IN ('CHENNAI', 'BANGALORE');
(vi) SELECT DISTINCT ANO FROM TRANSACT
(vii) SELECT ANO, COUNT(*), MIN(AMOUNT) FROM TRANSACT
      GROUP BY ANO HAVING COUNT(*)> 1
(viii) SELECT COUNT(*), SUM(AMOUNT) FROM TRANSACT
      WHERE DOT <= '2017-10-01'

03.

Write SQL queries for (i) to (iv) and write outputs for SQL queries (v) to (viii), which are based on the table given below:

Table: TRAINS

TNO	TNAME	START	END
11096	Ahimsa Express	Pune Junction	Ahmedabad Junction
12015	Ajmer Shatabdi	New Delhi	Ajmer Junction
1651	Pune Hbj Special	Pune Junction	Habibganj
13005	Amritsar Mail	Howrah Junction	Amritsar Junction
12002	Bhopal Shatabdi	New Delhi	Habibganj
12417	Prayag Raj Express	Allahabad Junction	New Delhi
14673	Shaheed Express	Jaynagar	Amritsar Junction
12314	Sealdah Rajdhani	New Delhi	Sealdah
12498	Shane Punjab	Amritsar Junction	New Delhi
12451	Shram Shakti Express	Kanpur Central	New Delhi
12030	Swarna Shatabdi	Amritsar Junction	New Delhi

Table: PASSENGERS

PNR	TNO	PNAME	GENDER	AGE	TRAVELDATE
P001	13005	R N AGRAWAL	MALE	45	2018-12-25
P002	12015	P TIWARY	MALE	28	2018-11-10
P003	12015	S TIWARY	FEMALE	22	2018-11-10
P004	12030	S K SAXENA	MALE	42	2018-10-12
P005	12030	S SAXENA	FEMALE	35	2018-10-12
P006	12030	P SAXENA	FEMALE	12	2018-10-12
P007	13005	N S SINGH	MALE	52	2018-05-09
P008	12030	J K SHARMA	MALE	65	2018-05-09
P009	12030	R SHARMA	FEMALE	58	2018-05-09

(i)   To display details of all Trains which starts from New Delhi
(ii)   To display PNR, PNAME, GENDER and AGE of all passengers whose AGE is below 50
(iii)   To display total numbers of MALE and FEMALE passengers
(iv)   To display records of all passengers travelling in trains whose TNO is 12015
(v)   SELECT MAX(TRAVELDATE),MIN(TRAVELDATE) FROM PASSENGERS WHERE GENDER='FEMALE';
(vi)   SELECT END, COUNT(*) FROM TRAINS GROUP BY END HAVING COUNT(*)>1;
(vii)   SELECT DISTINCT TRAVELDATE FROM PASSENGERS;
(viii) SELECT TNAME, PNAME FROM TRAINS T, PASSENGERS P WHERE T.TNO=P.TNO AND AGE BETWEEN 50 AND 60

04.

Consider the table SHOPPE and ACCESSORIES, write the query for (i) to (v) and output for (vi) to (x)

Table : SHOPPE

Id	SName	Area
S01	ABC Computronics	CP
S02	All Infotech Media	GK II
S03	Tech Shoppe	CP
S04	Geeks Tecno Soft	Nehru Place
S05	Hitech Tech Store	Nehru Place

Table : ACCESSORIES

No	Name	Price	Id
A01	Mother Board	12000	S01
A02	Hard Disk	5000	S01
A03	Keyboard	500	S02
A04	Mouse	300	S01
A05	Mother Board	13000	S02
A06	Keyboard	400	S03
A07	LCD	6000	S04
T08	LCD	5500	S05
T09	Mouse	350	S05
T10	Hard Disk	4500	S03

(i)   To display Name and Price of all the Accessories in descending order of their Price
(ii)   To display Id and Sname of all the Shoppe location in 'Nehru Place'
(iii)   To display Name, Minimum and Maximum Price of each Name from ACCESSORIES table
(iv)   To display Name, Price of all Accessories and their respective SName from table SHOPPE and ACCESSORIES where Price is 5000 or more.
(v)   To display all details of accessories where name contains word 'Board';
(vi)   SELECT DISTINCT NAME FROM ACCESSORIES WHERE PRICE>5000;
(vii)   SELECT AREA,COUNT(*) FROM SHOPPE GROUP BY AREA;
(viii) SELECT AVG(PRICE), MAX(PRICE) FROM ACCESSORIES WHERE PRICE>=10000;
(ix)   SELECT NAME, PRICE*.05 DISCOUNT FROM ACCESSORIES WHERE ID IN ('S02','S03)
(x)   SELECT * FROM SHOPPE S, ACCESSORIES A WHERE S.ID = A.ID AND PRICE>=10000;

05

In a database there are two tables : Write MYSQL queries for (i) to (vi)

Table : Doctors

DocID	DocName	Department	NoofOpdDays
101	J K Mishra	Ortho	3
102	Mahesh tripathi	ENT	4
103	Ravi Kumar	Neuro	5
104	Mukesh Jain	Physio	3

Table : Patients

PatNo	PatName	Department	DocId
1	Payal	ENT	102
2	Naveen	Ortho	101
3	Rakesh	Neuro	103
4	Atul	Physio	104

(i) To display PatNo, PatName and corresponding DocName for each patient.
(ii) To display the list of all doctors whose NoofOpdDays are more than 3
(iii) To display DocName, Department,PatName and DocId from both the tables where DocID is either 101 or 103
(iv) To display total no of different departments from Patients table.