Assignment 2

Q1. Write a Sql query that will fetch all upcoming courses.

course_id	course_name	description	fees	start_date	end_date	video_expire_days
1	IIT-MERN-2025	MERN	4000	2025-12-20	2026-01-20	30
7	AI	some course related to AI	10000	2025-12-24	2026-01-24	5
8	Android	Android related course	9999	2025-12-24	2026-01-24	7
11	python	py	10000	2025-12-24	2026-01-24	20

Query - select * from courses where start_date>curdate();

Output-

```
mysql> select * from courses where start_date>curdate();
+-----------+---------------+---------------------------+-------+------------+------------+-------------------+
| course_id | course_name   | description               | fees  | start_date | end_date   | video_expire_days |
+-----------+---------------+---------------------------+-------+------------+------------+-------------------+
|         1 | IIT-MERN-2025 | MERN                      |  4000 | 2025-12-20 | 2026-01-20 |                30 |
|         7 | AI            | some course related to AI | 10000 | 2025-12-24 | 2026-01-24 |                30 |
|         8 | Android       | Android related course    |  9999 | 2025-12-24 | 2026-01-24 |                30 |
|        11 | Python        | py                        | 10000 | 2025-12-24 | 2026-01-24 |                30 |
+-----------+---------------+---------------------------+-------+------------+------------+-------------------+
4 rows in set (0.00 sec)
```

Q2. Write a Sql query that will fetch all the registered students along with course name

reg_no	name	email	mobile_no	course_id	course_name
1	student1	s1	123456	1	IIT-MERN-2025
3	student3	s3	123456	1	IIT-MERN-2025
6	student2	s2	123456	3	IIT-MERN-2025-July

Query - select reg_no,name,email,mobile_no,s.course_id,c.course_name from students s join courses c on s.course_id = c.course_id;

Output-

```
mysql> select reg_no,name,email,mobile_no,s.course_id,c.course_name from students s join courses c on s.course_id = c.course_id;
+--------+-------------------+---------------------+-----------+-----------+---------------+
| reg_no | name              | email               | mobile_no | course_id | course_name   |
+--------+-------------------+---------------------+-----------+-----------+---------------+
|   1001 | Ankita Basarwadkar | ankita@gmail.com    |      1234 |         1 | IIT-MERN-2025 |
|   1002 | Samiksha Danole    | samidanole@gmail.com |     12345 |         7 | AI            |
|   1003 | Vijaya Pawar       | vijayapawar@gmail.com |      1235 |         8 | Android       |
+--------+-------------------+---------------------+-----------+-----------+---------------+
3 rows in set (0.00 sec)
```

Q3. Write an SQL query to fetch the complete details of a student (based on their email) along with the details of the course they are enrolled in.

reg_no	name	email	mobile_no	course_id	course_name	description	fees	start_date	end_date	video_expire_days
1	student1	s1	123456	1	IIT-MERN-2025	MERN	4000	2025-12-20	2026-01-20	30

Query - select reg_no,name,email,mobile_no,s.course_id,course_name,description,fees,start_date,end_date, video_expire_days from Students s join courses c on s.course_id = c.course_id;

Output-

```
mysql> select reg_no,name,email,mobile_no,s.course_id,course_name,description,fees,start_date,end_date,video_expire_days from Students s join courses c on s.course_id = c.course_id;
+--------+-----------------+-----------------------+-----------+-----------+---------------+-------------------------+-------+------------+------------+-------------------+
| reg_no | name            | email                 | mobile_no | course_id | course_name   | description             | fees  | start_date | end_date   | video_expire_days |
+--------+-----------------+-----------------------+-----------+-----------+---------------+-------------------------+-------+------------+------------+-------------------+
|   1001 | Ankita Basarwadkar | ankita@gmail.com      |      1234 |         1 | IIT-MERN-2025 | MERN                    |  4000 | 2025-12-20 | 2026-01-20 |                30 |
|   1002 | Samiksha Danole    | samidanole@gmail.com  |     12345 |         7 | AI            | some course related to AI | 10000 | 2025-12-24 | 2026-01-24 |                30 |
|   1003 | Vijaya Pawar       | vijayapawar@gmail.com |      1235 |         8 | Android       | Android related course  |  9999 | 2025-12-24 | 2026-01-24 |                30 |
+--------+-----------------+-----------------------+-----------+-----------+---------------+-------------------------+-------+------------+------------+-------------------+
3 rows in set (0.00 sec)
```

Q4. Write an SQL query to retrieve the course details and the list of non-expired videos for a specific student using their email address. A video is considered active (not expired) if its added_at date plus the course's video_expire_days has not yet passed compared to the current date.

Example: A video added on 2025-01-01 with 30 video_expire_days remains active until 2025-01-31.

course_id	course_name	start_date	end_date	video_expire_days	video_id	title	added_at
1	IIT-MERN-2025	2025-12-20	2026-01-20	30	12	MERN video 6	2025-11-26 23:36:18
1	IIT-MERN-2025	2025-12-20	2026-01-20	30	14	MERN 10	2025-11-26 23:52:13

Query – select s.reg_no,s.name,s.email,c.course_id,c.course_name,v.video_id,v.title,v.added_date from students s join courses c on s.course_id = c.course_id join videos v on v.course_id = c.course_id where s.email='samidanole@gmail.com' and date_add(v.added_date,interval c.video_expire_days day) >= curdate();

Output-,

```
mysql> select s.reg_no,s.name,s.email,c.course_id,c.course_name,v.video_id,v.title,v.added_date from students s join courses c on s.course_id =
c.course_id join videos v on v.course_id = c.course_id where s.email='samidanole@gmail.com' and date_add(v.added_date,interval c.video_expire_da
ys day) >= curdate();
+--------+----------------+----------------------+-----------+-------------+----------+-------+------------+
| reg_no | name           | email                | course_id | course_name | video_id | title | added_date |
+--------+----------------+----------------------+-----------+-------------+----------+-------+------------+
|   1002 | Samiksha Danole | samidanole@gmail.com |         7 | AI          |      112 | AI    | 2025-12-20 |
|   1002 | Samiksha Danole | samidanole@gmail.com |         7 | AI          |      114 | AI    | 2025-12-21 |
+--------+----------------+----------------------+-----------+-------------+----------+-------+------------+
2 rows in set (0.02 sec)
```