**Lab Exercises:**

1. Create a table named **Sections** with the following rules and constraints:

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Section\_ID | Section\_name | Number\_of\_instructors |
| Data type | Number | Varchar2 | Number |
| length | 3 | 30 | 2 |
| constraints | Primary key |  | Default: 0  Must be positive |

1. Create table named **Students** with the following rules and constraints:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column name | Student\_ID | Name | Address | Birthdate | Section\_ID |
| Data type | Number | Varchar2 | Varchar2 | Date | Number |
| length | 8 | 20 | 100 |  | 3 |
| constraints | Primary key | Unique |  | Not null | Foreign key, if a section deleted then delete all the students automatically |

1. Add the following column to **Students** table: (**mobile**, **number**, 10) and the following column to **Sections** table (**Section\_Head**, **varchar2**, 100).
2. Add **Not null** constraint to the **Section\_name** column in **Sections** table.
3. Increase the length of the **address** column in **students** table to 200.
4. Remove **number\_of\_istructors** column from **sections** table.
5. Create a backup table from **students** table called **students2** with all its information and columns.
6. Drop the **students** table.
7. Rename the **students2** table to be **students**.
8. Find all the constraints names using **USER\_CONSTRAINTS** for user **system**.