

# BANGLADESH ARMY INTERNATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY (BAIUST), CUMILLA.



## PROJECT ON MEDICAL COLLEGE

Department of Computer Science & Engineering (CSE)

Course Title : Database Management Sessional

Course Code : CSE – 302

Topic : Medical College & Hospital

Submission Data : 09 Aug, 2022.

Marking

Submitted to_	Submitted by_
Name : Mousumi Hasan Mukti Assistant Professor. Department of Computer Science & Engineering. (BAIUST).	Name : Sonia Akter ID : 1111064 Section : B Level : 03 Term : I Department of Computer Science & Engineering(CSE).

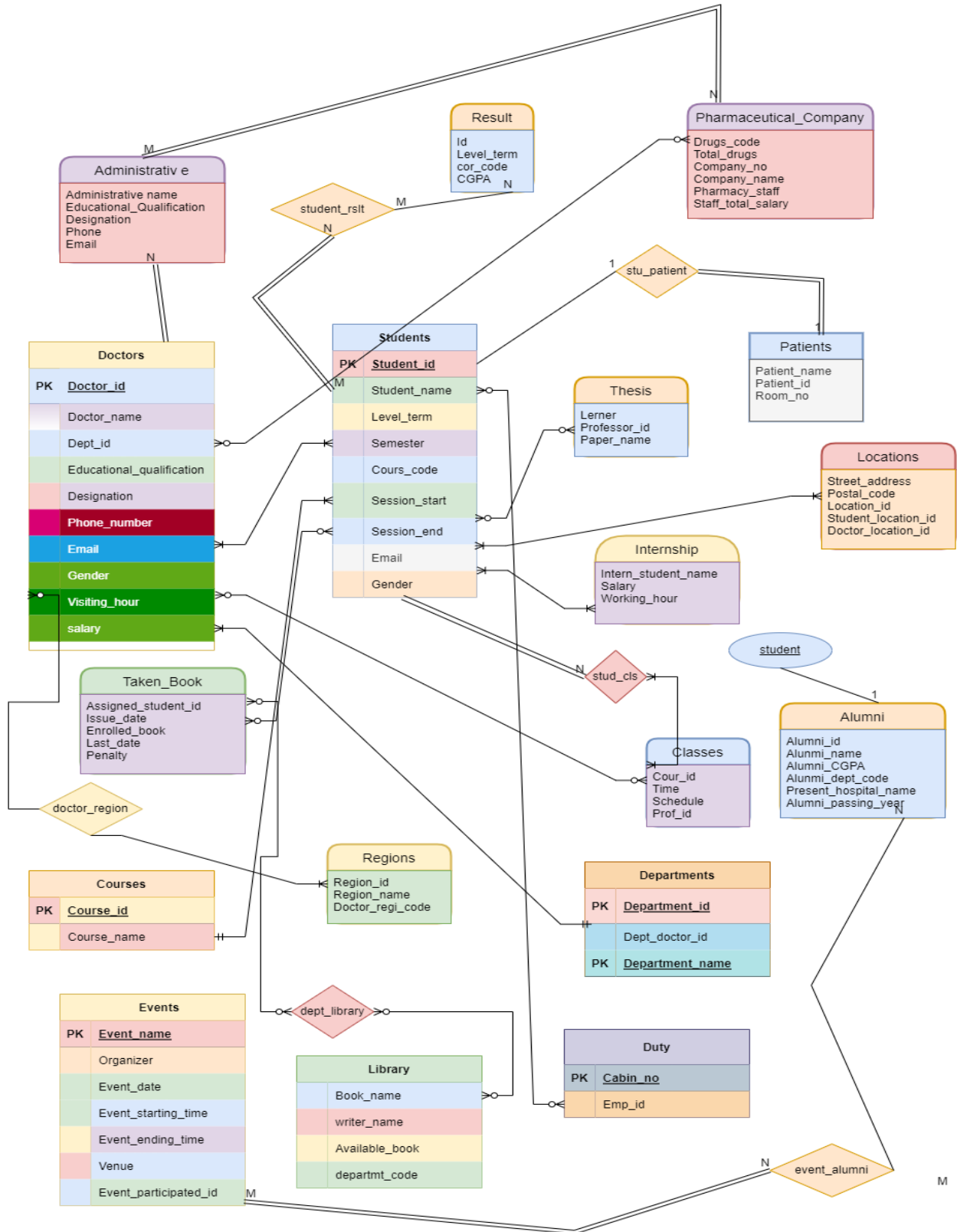
Sonia Akter

Signature of Student

Signature of Teacher

Bangladesh Army International University of Science & Technology (BAIUST), Cumilla.

### ER-diagram:



## **Normalization:**

Example of 1<sup>st</sup> normal form:

### **Administrative table-**

Administrative_name	Educational_qualification	Designation	Phone	Email
Professor Dr. Md. Tito Mia	FCPS	Principal	51674388	<a href="mailto:principal@dmc.gov.bd">principal@dmc.gov.bd</a> <a href="mailto:dmc_principal@yahoo.com">dmc_principal@yahoo.com</a>
Professor Dr. Md. Shafiqul Alam Chowdhury	MS	Vice-Principal	++88763453	<a href="mailto:vice_principal@dmc.gov.bd">vice_principal@dmc.gov.bd</a> <a href="mailto:drshamimk41@yahoo.com">drshamimk41@yahoo.com</a>

Here, the administrative table is not in 1NF because of multi-valued email address. So, Firstlt, we convert it into first normal form then we will do rest of the work. So,

### **Convert into first Normal form-**

Administrative_name	Educational_qualification	Designation	Phone	Email
Professor Dr. Md. Tito Mia	FCPS	Principal	51674388	principal@dmc.gov.bd
Professor Dr. Md. Tito Mia	FCPS	Principal	51674388	dmc_principal@yahoo.com
Professor Dr. Md. Shafiqul Alam Chowdhury	MS	Vice-Principal	++88763453	vice_principal@dmc.gov.bd
Professor Dr. Md. Shafiqul Alam Chowdhury	MS	Vice-Principal	++88763453	drshamimk41@yahoo.com

Now, there are no Second Normal Form and Third Normal Form.

### **Department Table-**

Department_id	Department_name	Dept_doctor_id
2221	Anatomy	101,102,111
3331	Physiology	103,106,108
4441	Cardiac Surgery	104,105,109
5551	Medicine	107,113

In department table we use multi-valued dept\_doctor\_id. So it is also need to be convert into First Normal Form.Like,

**Converted-**

Department_id	Department_name	Dept_doctor_id
2221	Anatomy	101
2221	Anatomy	102
2221	Anatomy	111
3331	Physiology	103
3331	Physiology	106
3331	Physiology	108
4441	Cardiac Surgery	104
4441	Cardiac Surgery	105
4441	Cardiac Surgery	109
4441	Cardiac Surgery	112
5551	Medicine	107
5551	Medicine	113

**Events table:**

Even_na me	Organizer	Event_d ate	Event_Starting_ time	Event_ending_ time	Venue	Event_Participa nt_id
Website Lunching Ceremon y, Card Day	Incepta pharmaceuti cals limited	26-7- 2015	10.00	11.30	DMC Princip al Meeti ng Room	111102
Website Lunching Ceremon y, DMC Day, Card Day	Incepta pharmaceuti cals limited	26-7- 2015	10.00	11.30	DMC Princip al Meeti ng Room	111107
Website Lunching Ceremon y, DMC Day	Incepta pharmaceuti cals limited	26-7- 2015	10.00	11.30	DMC Princip al Meeti ng Room	111108
DMC Day, Card Day	Incepta pharmaceuti cals limited	01-07- 2016	10.00	4.40	DMC Princip al Meeti ng Room	1111016

Event table is not in Normal Form as we find event\_name has a multi-valued name. So we need to be convert it into First Normal Form Firstly.

**Convert like this:**

Even_name	Organizer	Event_date	Event_Starting_time	Event_ending_time	Venue	Event_Participant_id
Website Lunching Ceremony	Incepta pharmaceuticals limited	26-7-2015	10.00	11.30	DMC Principal Meeting Room	111102
Website Lunching Ceremony	Incepta pharmaceuticals limited	26-7-2015	10.00	11.30	DMC Principal Meeting Room	111107
Website Lunching Ceremony	Incepta pharmaceuticals limited	26-7-2015	10.00	11.30	DMC Principal Meeting Room	111108
DMC Day	Incepta pharmaceuticals limited	01-07-2016	10.00	4.40	DMC Principal Meeting Room	1111008
DMC Day	Incepta pharmaceuticals limited	01-07-2016	10.00	4.40	DMC Principal Meeting Room	1111016
DMC Day	Incepta pharmaceuticals limited	01-07-2016	10.00	4.40	DMC Principal Meeting Room	1111007

**Duty Table:**

Emp_id	Cabin_No
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1111001,1111017	20
1111002,1111020	21
1111004,1111022	22
1111007,1111023	23
1111008,1111024	24
1111010,1111027	25
1111011,1111030	26
1111012,1111033	27
1111015,1111037	28

Here is another table we will use that is also not in normal form. Because emp\_id has multi-valued student id. So, convert it into First Normal Form we get:

Emp_id	Cabin_No
1111001	20
1111002	21
1111004	22
1111007	23
1111008	24
1111010	25
1111011	26
1111012	27
1111015	28

### Example of 2<sup>nd</sup> normal form:

Now here also a table which are not in second normal form. Here, doctor\_id and course\_code is composite key. Because here, salary depend on course\_code and course\_code depends on doctor\_id. That is these two are prime attribute and these are partially depended.

### **Doctors Table:**

Doctor_id	Doctor_name	Dept_id	Educational_qualification	Designation	Salary	Course_id	Course_name
101	Dr.Sengupta kiswara	2221	M.Phil	Professor	103000	2221	Anatomy
102	Dr.Shakil Shams	2221	M.Phil	Associate Professor	103000	3331	Physiology
103	Dr.Dilruba Begum	3331	M.Phil	Professor	102000	4441	Cardiac Surgery
104	Dr.Nahid Yaemin	4441	M.O	Professor	103000	5551	Medicine
105	Dr.Pourobi Mollik	4441	MBBS	Lecturer	90000	6661	Neurology
106	Dr.Konika Das	3331	MBBS	Lecturer	103000	7771	Plastic Surgery

108	Dr.Tahmina Akter	3331	M.O	Associate Professor	80000	2221	Anatomy
109	Dr.Shimanto Al Ahsan	4441	M.O	Associate Professor	60000	3331	Physiology
110	Dr.Urmy Saha	7771	FCPS	Professor & Head of Department	105000	4441	Cardiac Surgery
111	Dr.Rashada Akter	2221	MBBS	Assistant Professor	50000	5551	Medicine
112	Dr.Mousumi Afroj	4441	M.Phil	Professor	101000	6661	Neurology

Converted into second normal form: (like this)

Table-1

Doctor_id	Doctor_name	Dept_id	Educational_qualification	Designation	Phone_number
101	Dr.Sengupta kiswara	2221	M.Phil	Professor	01676438745
102	Dr.Shakil Shams	2221	M.Phil	Associate Professor	01876534865
103	Dr.Dilruba Begum	3331	M.Phil	Professor	01854378945
104	Dr.Nahid Yaemin	4441	M.O	Professor	01965438723
105	Dr.Pourobi Mollik	4441	MBBS	Lecturer	01656487634
106	Dr.Konika Das	3331	MBBS	Lecturer	01545673894
107	Dr.Odhir Kumar	5551	M.Phil	Assistant Professor	01374698765

Table-2

Course_id	Course_name
2221	Anatomy
3331	Physiology
4441	Cardiac Surgery
5551	Medicine
6661	Neurology
7771	Plastic Surgery

Example of 3<sup>rd</sup> normal form:

**Students Table:**

Stud ent_ id	Stude nt_na me	Leve l_Te rm	Se me ster	Cour s_co de	Street _Addr ess	Post al_c ode	Loca tion_ id	St_i d	D _i d	Se ssi on Sta rt	Se ssi on En d	Email	Ge nd er
111 100 1	Benja min Jame s	4-2	Spri ng	2221	Aalto Place	3500	1000	111 100 1	1 0 1	12 - 02 - 20 16	12 - 02 - 20 21	<a href="mailto:benjaminstudent@gmail.com">benjaminstudent@gmail.com</a>	Fe ma le
111 100 2	Corin e Alise	5-1	Spri ng	2221	Abaco Path	4500	2000	111 100 2	1 0 2	24 - 05 - 20 14	24 - 05 - 20 19	<a href="mailto:corinestudent@gmail.com">corinestudent@gmail.com</a>	Fe ma le
111 100 4	Oscar Amar o	5-2	Su mm ar	2221	Abana Path	2300	3000	111 100 4	1 0 3	24 - 12 - 20 14	24 - 12 - 20 19	<a href="mailto:oscarstudent@gmail.com">oscarstudent@gmail.com</a>	M ale
111 100 7	Jacks on Willia m	3-1	Su mm ar	3331	Abasc o Court	2200	4000	111 100 7	1 0 4	10 - 08 - 20 17	10 - 08 - 20 22	jacksonstudent@gmail.com	Fe ma le
111 100 8	Alliso n Sue	3-2	Spri ng	3331	Abbev ille Loop	2100	5000	111 100 8	1 0 5	20 - 05 - 20 18	20 - 05 - 20 23	<a href="mailto:allisonstudent@gmail.com">allisonstudent@gmail.com</a>	M ale

Here, student\_no → student\_name

Student\_no → postal\_code (as unique)

Postal\_code → student\_street & location\_id

Student\_no → course\_code

Candidate key – student\_no.



For this relation in table, student\_no → postal\_code and spostal\_code → street\_address are true. So street\_address is transitively dependent on student\_no. It violates the third normal form. To convert it in third normal form, we will decompose the as:

Students(Student\_id, Student\_name, Level\_Term, Semester, Cours\_code, Session Start, Session End, Email, Gender).

Locations(Street\_Address, Postal\_code, Location\_id, St\_id,D\_id).

**Table-1**

Student_id	Student_name	Level_Term	Semester	Cours_code	Session Start	Session End	Email	Gender
1111001	Benjamin James	4-2	Spring	2221	12-02-2016	12-02-2021	<a href="mailto:benjaminstudent@gmail.com">benjaminstudent@gmail.com</a>	Female
1111002	Corine Alise	5-1	Spring	2221	24-05-2014	24-05-2019	<a href="mailto:corinestudent@gmail.com">corinestudent@gmail.com</a>	Female
1111004	Oscar Amaro	5-2	Summer	2221	24-12-2014	24-12-2019	<a href="mailto:oscarstudent@gmail.com">oscarstudent@gmail.com</a>	Male

**Table-2**

Street_Address	Postal_code	Location_id	St_id	D_id
Aalto Place	3500	1000	1111001	101
Abaco Path	4500	2000	1111002	102
Abana Path	2300	3000	1111004	103
Abasco Court	2200	4000	1111007	104

Then all the tables we use in this project are in first normal form, second normal form, third normal form and also boyce-codd normal form. So no need to do anything more here.

**Then I create my final all the tables (given below) for using in my project which are normalized.**

## Tables

### Administrative

Administrative_name	Educational_qualification	Designation	Phone	Email
Prof. Dr. Tito Mia	FCPS	Principal	51674388	principal@dmc.gov.bd
Prof. Dr. Tito Mia	FCPS	Principal	51674377	dmc_principal@yahoo.com
Prof. Dr. Md. Shafiqul Alam	MS	Vice-Principal	++88763453	vice-principal@dmc.gov.bd
Prof. Dr. Md. Shafiqul Alam	MS	Vice-Principal	++88763454	drshamimk41@yahoo.com

### DOCTORS

Doct or_id	Doctor_name	Dep t_id	Educational_q ualification	Design ation	Phone_n umber	Email	Gen der	Visiting _hour	Sala ry
101	Dr.Sengupta kiswara	2221	M.Phil	Profesor	01676438745	segupta.bd@gmail.com	Male	7Hour	103000
102	Dr.Shakil Shams	2221	M.Phil	Associate Professor	01876534865	shakil.bd@gmail.com	Male	5Hour	103000
103	Dr.Dilruba Begum	3331	M.Phil	Profesor	01854378945	dilruba.bd@gmail.com	Female	6Hour	102000
104	Dr.Nahid Yaemin	4441	M.O	Profesor	01965438723	nahid.bd@gmail.com	Male	7Hour	103000
105	Dr.Pourobi Mollik	4441	MBBS	Lecturer	01656487634	pourobi.bd@gmail.com	Female	6Hour	90000
106	Dr.Konika Das	3331	MBBS	Lecturer	01545673894	konika.bd@gmail.com	Female	6Hour	103000
107	Dr.Odhir Kumar	5551	M.Phil	Assistant Professor	01374698765	odhir.bd@gmail.com	Male	7Hour	60000
108	Dr.Shimanto Al Ahsan	4441	M.O	Associate Professor	01345267894	shimanto.bd@gmail.com	Female	5Hour	80000

109	Dr.Tahmina Akter	3331	M.O	Associate Professor	01787634345	tahmina.bd@gmail.com	Male	4Hour	60000
110	Dr.Urmy Saha	7771	FCPS	Professor & Head of Department	01987634387	urmy.bd@gmail.com	Male	7Hour	105000
111	Dr.Rashada Akter	2221	MBBS	Assistant Professor	01987632415	rashada.bd@gmail.com	Female	6Hour	500000
112	Dr.Mousumi Afroj	4441	M.Phil	Professor	09123463867	mousumi.bd@gmail.com	Female	6Hour	101000
113	Dr.Sanjida Akter Suma	5551	M.Phil	Professor and Head of Department	01765389623	sanjida.bd@gmail.com	Female	4Hour	75000
114	Dr.Tabassum Nehar	5551	MBBS	Assistant Professor	01654368732	tabassum.bd@gmail.com	Female	7Hour	450000
115	Dr.Kazi Gias Uddin	6661	FCPS	Professor & Head of Department	01325648763	kazigiyas.bd@gmail.com	Male	6Hour	106000
116	Dr.Nazma Haque	7771	FCPS	Professor & Head of Department	01987345632	nazma1.bd@gmail.com	Female	5Hour	107000
117	Dr.Afrina	7771	FCPS	Professor	01987453324	afrina.bd@gmail.com	Female	5Hour	700000
118	Dr.Riyaj Mahmud	6661	M.D	Associate Professor	01789634254	riyaj.bd@gmail.com	Male	6Hour	400000

119	Dr.Imrul I Saha	777 1	M.O	Assista nt Profes sor	0187364 8345	imrul.bd@gm ail.com	Mal e	5Hour	300 000
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### Departments

Department_id	Department_name	Dept_doctor_id
2221	Anatomy	101
2221	Anatomy	102
2221	Anatomy	111
3331	Physiology	103
3331	Physiology	106
3331	Physiology	108
4441	Cardiac Surgery	104
4441	Cardiac Surgery	105
4441	Cardiac Surgery	109
4441	Cardiac Surgery	112
5551	Medicine	107
5551	Medicine	113
5551	Medicine	114
6661	Neurology	115
6661	Neurology	118
7771	Plastic Surgery	110
7771	Plastic Surgery	116
7771	Plastic Surgery	117
7771	Plastic Surgery	119

### Students

Student_id	Student_name	Level_Term	Semester	Cours_code	Sessi on Start	Sessi on End	Email	Gend er
111100 1	Benjamin James	4-2	Spring	2221	12- 02- 2016	12- 02- 2021	<a href="mailto:benjaminstudent@gmail.com">benjaminstudent@gmail.com</a>	Fema le
111100 2	Corine Alise	5-1	Spring	2221	24- 05- 2014	24- 05- 2019	<a href="mailto:corinestudent@gmail.com">corinestudent@gmail.com</a>	Fema le
111100 4	Oscar Amaro	5-2	Summ ar	2221	24- 12- 2014	24- 12- 2019	<a href="mailto:oscarstudent@gmail.com">oscarstudent@gmail.com</a>	Male

1111007	Jackson William	3-1	Summer	3331	10-08-2017	10-08-2022	jacksonstudent@gmail.com	Female
1111008	Allison Sue	3-2	Spring	3331	20-05-2018	20-05-2023	<a href="mailto:allisonstudent@gmail.com">allisonstudent@gmail.com</a>	Male
1111010	Kathryn Melissa	4-1	Spring	5551	20-02-2013	20-02-2018	<a href="mailto:kathrynstudent@gmail.com">kathrynstudent@gmail.com</a>	Male
1111011	Philip John	2-1	Spring	5551	20-09-2018	20-09-2023	<a href="mailto:philipstudent@gmail.com">philipstudent@gmail.com</a>	Female
1111012	Bianca Magali	2-1	Spring	4441	20-09-2018	20-09-2023	<a href="mailto:biancastudent@gmail.com">biancastudent@gmail.com</a>	Male
1111015	Benjamin Eli	2-2	Summer	6661	06-04-2019	06-04-2024	<a href="mailto:elistudent@gmail.com">elistudent@gmail.com</a>	Female
1111016	Emma Elizabeth	1-1	Spring	4441	02-09-2020	02-09-2025	<a href="mailto:emmastudent@gmail.com">emmastudent@gmail.com</a>	Female
1111017	Lewis Yoder	1-1	Spring	6661	02-09-2020	02-09-2025	<a href="mailto:lewisstudent@gmail.com">lewisstudent@gmail.com</a>	Male
1111020	Alisha Dawn	1-2	Summer	6661	05-04-2019	05-04-2024	<a href="mailto:alishastudent@gmail.com">alishastudent@gmail.com</a>	Male
1111022	Dana Michelle	5-2	Summer	7771	24-12-2014	24-12-2019	<a href="mailto:danastudent@gmail.com">danastudent@gmail.com</a>	Male
1111023	Barrett William	3-1	Summer	6661	10-08-2017	10-08-2022	<a href="mailto:barretstudent@gmail.com">barretstudent@gmail.com</a>	Female
1111024	Emily Ann	3-2	Spring	7771	20-05-2018	20-05-2023	<a href="mailto:emilystudent@gmail.com">emilystudent@gmail.com</a>	Female
1111027	Kathryn Ellen	2-2	Summer	7771	06-04-2019	06-04-2024	<a href="mailto:ellenstudent@gmail.com">ellenstudent@gmail.com</a>	Female
1111030	Emma Lynn	2-1	Spring	5551	20-09-2018	20-09-2023	<a href="mailto:lyannstudent@gmail.com">lyannstudent@gmail.com</a>	Male
1111033	Erica Rose	5-1	Spring	2221	24-05-2014	24-05-2019	<a href="mailto:rosetstudent@gmail.com">rosetstudent@gmail.com</a>	Female

111103 7	Nicole Lea	4-2	Spring	3331	12-02-2016	12-02-2021	nicolestudent@gmail.com	Male
111103 8	Nicholas Scott	4-1	Spring	4441	20-02-2013	20-02-2018	<a href="mailto:nicholasstudent@gmail.com">nicholasstudent@gmail.com</a>	Male

### Courses

Course_id	Course_name
2221	Anatomy
3331	Physiology
4441	Cardiac Surgery
5551	Medicine
6661	Neurology
7771	Plastic Surgery

### Regions

Region_id	Region_name
3500	Europe
4500	Americas
2300	Asia
2200	Middle East and Africa
2100	Americas
3700	Americas
3900	Middle East and Africa
2900	Asia
1200	Middle East and Africa
1100	Europe
2800	Americas
1300	Americas
1300	Europe
2400	Americas
2600	Europe
1600	Americas
2500	Middle East and Africa
1900	Middle East and Africa
4800	Middle East and Africa

### Locations

Street_Address	Postal_code	Location_id	St_id	D_id
Aalto Place	3500	1000	1111001	101

Abaco Path	4500	2000	1111002	102
Abana Path	2300	3000	1111004	103
Abasco Court	2200	4000	1111007	104
Abbeville Loop	2100	5000	1111008	105
Abbey Way	3700	6000	1111011	107
Abel Place	3900	7000	1111012	108
Abercorn Court	2900	8000	1111015	109
Abner Street	1200	9000	1111017	110
Acosta Court	1100	1001	1111020	111
Adams Lane	2800	1002	1111022	112
Addison Avenue	1300	2002	1111023	113
Adriana Way	2400	2003	1111024	114
Afton Avenue	4600	3003	1111030	115
Afton Avenue	4800	5000	1111033	116
Adriana Way	1900	6000	1111037	118
Addison Avenue	2500	7000	1111038	119

## Results

Id	Level_Term	CGPA
1111001	4-2	3.35
1111002	5-1	3.98
1111004	5-2	3.76
1111007	3-1	3.85
1111008	3-2	3.56
1111010	4-1	3.87
1111011	2-1	3.65
1111012	2-1	4
1111015	2-2	3.22
1111016	1-1	3.98
1111017	1-1	2.98
1111022	5-2	3.99
1111023	3-1	3.45
1111024	3-2	3.33
1111027	3-2	3.22
1111030	1-2	3.22
1111033	5-2	3.66
1111037	5-1	3.88
1111038	4-1	3.63

## Classes

Cour_id	Time	Schedule	Prof_id
2221	7.30	04-JUL-17	101
2221	7.30	05-JUL-17	102

2221	7.30	06-JUL-17	103
3331	7.00	10-JUL-17	104
3331	8.00	11-JUL-17	105
3331	8.00	12-JUL-17	107
4441	9.30	13-JUL-17	108
4441	3.30	14-JUL-17	109
4441	11.00	15-JUL-17	110
4441	11.00	16-JUL-17	111
5551	2.30	01-JUL-17	112
5551	12.30	03-JUL-17	113
6661	2.00	08-JUL-17	114
6661	3.00	09-JUL-17	115
7771	3.00	18-JUL-17	118
7771	5.40	19-JUL-17	110
7771	5.40	23-JUL-17	116
7771	2.40	25-JUL-17	117
5551	7.00	28-JUL-17	119

### Thesis

Lerner_id	Professor_id	Paper_name
1111010	105	Is medical research on animals ethical
1111024	104	Epidemics versus pandemics
1111037	102	Child health care
1111038	107	Medical humanitarian missions
1111001	108	Homoeopathic medicines - the placebo effect
1111004	104	Virus infections - causes and treatment
1111022	107	Vaccination - dangers versus benefits
1111002	104	Artificial tissues and organs
1111033	102	Rare genetic diseases
1111008	103	Brain injuries

### Internship

Intern_Student_name	Salary	Working_Hour
Sabikon Nahar	60000	7 Hour
Oishi Liza	60000	7 Hour
Tanannam Islam	50000	6 Hour
Joty Islam	50000	6 Hour
Nahin Hasan	55000	6.5 Hour
Forhad Uddin	65000	6 Hour
Nuri Zerín	45000	4 Hour
Brinty Alam	45000	4 Hour



Fariha Alam	30000	3 Hour
Sonia Akter	40000	5 Hour
Tania Akter	45000	5 Hour
Md.Mamun	60000	6 Hour
Al Mahmud	56000	6 Hour
Ahosan Habib	50000	5 Hour
Umme Habiba	30000	3 Hour

## Events

Even_name	Organizer	Event_date	Event_Starting_time	Event_ending_time	Venue	Event_Participant_id
Website Lunching Ceremony	Incepta pharmaceuticals limited	26-7-2015	10.00	11.30	DMC Principal Meeting Room	1111002
Website Lunching Ceremony	Incepta pharmaceuticals limited	26-7-2015	10.00	11.30	DMC Principal Meeting Room	1111007
Website Lunching Ceremony	Incepta pharmaceuticals limited	26-7-2015	10.00	11.30	DMC Principal Meeting Room	1111008
DMC Day	Incepta pharmaceuticals limited	01-07-2016	10.00	4.40	DMC Principal Meeting Room	1111008
DMC Day	Incepta pharmaceuticals limited	01-07-2016	10.00	4.40	DMC Principal Meeting Room	1111016
DMC Day	Incepta pharmaceuticals limited	01-07-2016	10.00	4.40	DMC Principal Meeting Room	1111007

					ng Room	
DMC Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	4.40	DMC Princip al Meeti ng Room	1111017
Card Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	3.40	DMC Princip al Meeti ng Room	1111001
Card Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	3.40	DMC Princip al Meeti ng Room	1111002
Card Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	3.40	DMC Princip al Meeti ng Room	1111007
Card Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	3.40	DMC Princip al Meeti ng Room	1111016
Card Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	3.40	DMC Princip al Meeti ng Room	1111037
Card Day	Incepta pharmaceuti cals limited	20-08- 2016	10.00	3.40	DMC Princip al Meeti ng Room	1111038

**Duty**

Emp_id	Cabin_No
1111001	20

1111002	21
1111004	22
1111007	23
1111008	24
1111010	25
1111011	26
1111012	27
1111015	28
1111016	29
1111017	20
1111020	21
1111022	22
1111023	23
1111024	24
1111027	25
1111030	26
1111033	27
1111037	28
1111038	29

#### Patient

Patient_Name	Patient_Id	Room_No
Lotfa Yesmin	600	20
Lotifa Ara	601	21
Mohammad Arafat	602	22
Md.AR Rahman	603	23
Nijum Islam	604	24
Suborna Alam	605	25
Fatema Alam	606	26
Moriyam Ara	607	27
Jahid Hasan	608	28
Habib	609	29

#### Pharmaceutical

Drugs_code	Total_drugs	Company_no	Company_name	Pharmacy_staff	total_salary
2221	275990	901	Squar Pharmaceutical	6506	1706875
3331	378949	901	Squar Pharmaceutical	7095	1567342
4441	564738	901	Squar Pharmaceutical	5694	1435637
5551	342563	901	Squar Pharmaceutical	8794	1243567

6661	234352	901	Squar Pharmaceutical	9804	12435673
7771	125342	901	Squar Pharmaceutical	9805	1324567
2221	234152	902	Incpta Pharmacetical	8795	1233443
3331	7634432	902	Incpta Pharmacetical	9804	1345267
4441	764232	902	Incpta Pharmacetical	7984	1654324
5551	222243516	902	Incpta Pharmacetical	9784	1787453
6661		902	Incpta Pharmacetical	8976	1786543
7771	543263	902	Incpta Pharmacetical	8675	1887536
2221	452312	903	Bexim Pharmaceutical	8769	1345632
3331	524373	903	Bexim Pharmaceutical	9787	1785434
4441	624373	903	Bexim Pharmaceutical	9687	1876453
5551	652341	903	Bexim Pharmaceutical	8676	1456372
6661	452341	903	Bexim Pharmaceutical	7568	1764538
7771	564265	903	Bexim Pharmaceutical	9686	1874646
2221	564265	904	Opsonin Pharma Ltd	9687	1875327
3331	554265	904	Opsonin Pharma Ltd	8987	1988374
4441	854265	904	Opsonin Pharma Ltd	9987	1678374
5551	554265	904	Opsonin Pharma Ltd	6087	9876543
6661	934562	904	Opsonin Pharma Ltd	8988	1897645
7771	334562	904	Opsonin Pharma Ltd	5688	1637645
2221	764562	905	Renata Limited	9688	1237645
3331	764562	905	Renata Limited	5688	9837645
4441	864562	905	Renata Limited	7788	6537645
5551	434562	905	Renata Limited	8888	3437645
6661	494562	905	Renata Limited	4488	9937645
7771	784562	905	Renata Limited	2188	1937645

2221	894562	906	Healthcare Limited.	9253	7435629
3331	934562	906	Healthcare Limited.	6253	2535629
4441	932562	906	Healthcare Limited.	9373	4355629
5551	659562	906	Healthcare Limited.	6543	4357429
6661	659562	906	Healthcare Limited.	9763	9457429
7771	659562	906	Healthcare Limited.	9763	9457429

### Alumni

Alumni_id	Alumni_name	Alunmi_CG PA	Alumni_Dept_Code	Present_Hospital_name	Alunmi_Passing_Year
222201	Sabikon Nahar	3.87	2221	Square Hospital.	2001
222202	Oishi Liza	3.87	2221	Sheikh Fazilatunnesa Mujib Memorial KPJ Specialized Hospital & Nursing College.	2001
222203	Tanannam Islam	3.67	2221	Popular Diagnostic Centre Ltd.	2001
222204	Joty Islam	3.76	2221	Labaid Hospitals.	2002
222205	Nahin Hasan	3.33	2221	Asgar Ali Hospital.	2003
222206	Forhad Uddin	3.89	2221	Ibn Sina Specialized Hospital.	2002
222207	Nuri Zerín	3.87	2221	United Hospital Limited.	2003
333301	Sabikon Nahar	3.89	3331	Harun Eye Foundation Hospital.	2001
333302	Oishi Liza	3.76	3331	Square Hospital.	2005
333303	Lotfa Yesmin	3.87	3331	Sheikh Fazilatunnesa Mujib Memorial KPJ Specialized Hospital & Nursing College.	2005
333304	Lotifa Ara	3.87	3331	Popular Diagnostic Centre Ltd.	2006

333305	Mohammad Arafat	3.67	3331	Anwer Khan Modern Hospital Ltd, Dhaka	2007
333306	Md.AR Rahman	3.76	3331	Evercare Hospital Dhaka[3]	2002
333307	Nijum Islam	3.33	4441	Asgar Ali Hospital Gandaria, Dhaka[4]	2001
444401	Suborna Alam	3.89	4441	Aysha Memorial Specialised Hospital, Dhaka	2003
444402	Fatema Alam	3.87	4441	Bangabandhu Memorial Hospital (BBMH), Chittagong	2002
444403	Moriyam Ara	3.89	4441	Bangabandhu Sheikh Mujib Medical University	2003
444404	Jahid Hasan	3.76	4441	Bangladesh College of Nursing	2001
444405	Habib	3.87	4441	Bangladesh Eye Hospital Limited, Dhaka[5]	2003
444406	Lotfa Yesmin	3.87	5551	Bangladesh Medical College Hospital, Dhaka	2004
555501	Lotifa Ara	3.87	5551	Bangladesh Specialized Hospital	2005
555502	Mohammad Arafat	3.67	5551	Bangladesh Spine & Orthopaedic General Hospital Ltd, Panthapath, Dhaka	2006
555503	Md.AR Rahman	3.76	5551	Anwer Khan Modern Hospital Ltd, Dhaka	2005
555504	Nijum Islam	3.33	6661	Evercare Hospital Dhaka[3]	2006
555505	Suborna Alam	3.89	6661	Asgar Ali Hospital Gandaria, Dhaka[4]	2005
555506	Fatema Alam	3.87	6661	Aysha Memorial Specialised Hospital, Dhaka	2006
666601	Moriyam Ara	3.89	6661	Bangabandhu Memorial Hospital (BBMH), Chittagong	2003
666602	Adams Lane	3.76	7771	Bangabandhu Sheikh Mujib Medical University	2002
666603	Addison Avenue	3.87	7771	Bangladesh College of Nursing	2005

666604	Adriana Way	3.87	7771	Bangladesh Eye Hospital Limited, Dhaka[5]	2006
666605	Afton Avenue	3.67	7771	Bangladesh Medical College Hospital, Dhaka	2005
666606	Afton Avenue	3.76	7771	Bangladesh Specialized Hospital	2002

### Library

Book_name	Writer_name	Available_Book	Dept_lib_code
Atlas of Human Anatomy	Ythkui Aky	6	2221
Ross & Wilson Anatomy and Physiology in Health and Illness	Yustud Akaui	7	2221
Ross & Wilson Anatomy and Physiology in Health and Illness	Yustud Akaui	7	2221
Clinical Anatomy: Applied Anatomy for Students and Junior Doctors	Abul Kamal Asad	4	2221
Gray's Anatomy for Students, 4th Edition.	Asaduzzamn	3	2221
Ghai's Textbook of Practical Physiology	Monir Ahmed	8	3331
Ganongs Review of Medical Physiology	Ahemd Monir	9	3331
Samson Wrights Applied Physiology	Yousof Ahmed	4	3331
CC Chatterjee's Human Physiology	Farida parbin	6	3331
Perspectives in Cardiothoracic Surgery (Volume V)	Miyataf Ara	6	4441
Atlas of Robotic Cardiac Surgery	Ahammed Hafij	5	4441
Manual of Perioperative Care in Adult Cardiac Surgery	Noulen Kabir	5	4441
TSRA Clinical Scenarios in Cardiothoracic Surgery	Prava Islam	9	4441
The Man Who Mistook His Wife for a Hat and	Parbin Begum	9	5551

Other Clinical Tales (Paperback)			
Musicophilia: Tales of Music and the Brain	Muniara Alam	6	6661
Hallucinations	Uynas Kil	6	6661
Hallucinations	Uynas Kil	6	6661
The Mind's Eye (Hardcover)	Ayatrdat Akil	12	7771
The Real Beauty Bible	Md.Easin	22	7771
After the Cut	Arafat Islam	32	7771
Plastic Surgery of the Face	Rabbi Fazle	22	7771

### **Taken Book**

Assigned_id	Issue_date	Enrolled_book	Last_date	Penalty
1111001	4/6/2017	The Man Who Mistook His Wife for a Hat and Other Clinical Tales (Paperback)	4/7/2017	0
1111002	4/6/2017	Musicophilia: Tales of Music and the Brain	5/7/2017	100
1111004	6/5/2017	Hallucinations	5/6/2017	0
1111007	2/5/2017	The Mind's Eye (Hardcover)	1/6/2017	200
1111008	4/6/2017	The Real Beauty Bible	29/6/2017	200
1111010	18/6/2017	After the Cut	29/6/2017	50
1111011	18/4/2017	After the Cut	29/5/2017	0
1111012	18/4/2017	CC Chatterjee Human Physiology	29/5/2017	100
1111015	1/4/2017	Perspectives in Cardiothoracic Surgery (Volume V)	29/5/2017	200
1111016	1/4/2017	Samson Wrights Applied Physiology	2/5/2017	0
1111007	1/4/2017	Samson Wrights Applied Physiology	2/5/2017	60

\*\*\*\*\*



## SQL PART(Query)

```
alter session set "_ORACLE_SCRIPT"=true;
```

```
create user dbms64
```

```
2 identified by 123;
```

User created.

```
SQL> grant dba to dbms64;
```

Grant succeeded.

```
SQL> conn dbms64/123@orcl;
```

Connected.

```
SQL> show user;
```

USER is "DBMS64"

1

```
create table Administrative
```

```
2 (
```

```
3   Administrative_name  varchar2(40),
```

```
4   Educational_qualification  varchar2(8),
```

```
5   Designation  varchar2(20),
```

```
6   Phone_number constraint administrative_phone_uk unique,
```

```
7   Email  varchar2(30) constraint administrative_email_uk unique
```

```
8 );
```

Table created.

```
insert into administrative
```

```
2 values('Professor Dr. Md. Tito Mia','FCPS','Principal',51674388,'principal@dmc.gov.bd');
```

```
insert into administrative
```

```
2 values('Professor Dr. Md. Tito
```

```
Mia','FCPS','Principal',51674377,'dmc_principal@yahoo.com');
```

```
insert into administrative
```

```
2 values('Prof. Dr. Md. Shafiqul Alam ','FCPS','Vice  
Principal',88763453,'vice_principal@dmc.gov.bd');
```

```
insert into administrative
```

```
2 values('Prof. Dr. Md. Shafiqul Alam ','FCPS','Vice  
Principal',88763454,'drshamimk41@yahoo.com');
```

-----\*\*\*\*\*-----

## 2

```
SQL> create table doctors
```

```
2 (  
3     doctor_id number constraint doctors_doctor_id_pk primary key,  
4     doctor_name varchar2(30),  
5     dept_id number,  
6     edicational_qualification varchar2(20),  
7     designation varchar2(25),  
8     phone_number number constraint doctors_phone_number_uk unique,  
9     email varchar2(30),  
10    gender varchar2(10),  
11    visiting_hour varchar2(10),  
12    salary number  
13 );
```

```
insert into doctors
```

```
2 values(101,'Dr.Sengupta  
kiswara',2221,'M.Phil','Professor',01676438745,'segupta.bd@gmail.com','Male','7Hour',1030  
00);
```

```
SQL> insert into doctors
```

```
2 values(102,'Dr.Shakil Shams',2221,'M.Phil','Associate  
Professor',01876534865,'shakil.bd@gmail.com','Male','5Hour',103000);
```

```
SQL> insert into doctors
```

```
2 values(103,'Dr.Dilruba
Begum',3331,'M.Phil','Professor',01854378945,'dilruba.bd@gmail.com','Female','6Hour',102
000);
```

```
SQL> insert into doctors
```

```
2 values(104,'Dr.Nahid
Yaemin',4441,'M.O','Professor',0185437765,'nahid.bd@gmail.com','male','7Hour',103000);
```

```
SQL> insert into doctors
```

```
2 values(105,'Dr.Pourobi
Mollik',4441,'MBBS','Lecturer',01864537765,'pourobi.bd@gmail.com','Female','6Hour',90000
);
```

```
SQL> insert into doctors
```

```
2 values(106,'Dr.Konika
Das',3331,'MBBS','Lecturer',01964537765,'konika.bd@gmail.com','Female','6Hour',103000);
```

```
SQL> insert into doctors
```

```
2 values(107,'Dr.Odhir Kumar',5551,'M.Phil','Assistant
Professor',01374698765,'odhir.bd@gmail.com','male','7Hour',60000);
```

```
SQL> insert into doctors
```

```
2 values(108,'Dr.Shimanto Al Ahsan',4441,'M.O','Associate
Professor',01787634345,'shimato.bd@gmail.com','male','4Hour',80000);
```

```
insert into doctors
```

```
2 values(109,'Dr.Tahmina Akter',3331,'M.O','Associate
Professor',01345267894,'tahmina.bd@gmail.com','Female','5Hour',60000);
```

```
SQL> insert into doctors
```

```
2 values(110,'Dr.Urmy Saha',7771,'FCPS','Professor and Head of
Department',01787621045,'urmy.bd@gmail.com','male','7Hour',105000);
```

```
SQL> insert into doctors
```

```
2 values(111,'Dr.Rashada Akter',2221,'MBBS','Assistant  
Professor',01887621045,'rashada.bd@gmail.com','Female','6Hour',500000);
```

```
SQL> insert into doctors
```

```
2 values(112,'Dr.Mousumi  
Afroj',4441,'M.Phil','Professor',01894621045,'mousumi.bd@gmail.com','Female','6Hour',101  
000);
```

```
SQL> insert into doctors
```

```
2 values(113,'Dr.Sanjida Akter Suma',5551,'M.Phil','Head of  
Department',01994621045,'sanjida.bd@gmail.com','Female','4Hour',75000);
```

```
SQL> insert into doctors
```

```
2 values(114,'Dr.Tabassum Nehar',5551,'MBBS','Assistane  
Professor',01923141045,'tabassum.bd@gmail.com','Female','7Hour',450000);
```

```
SQL> insert into doctors
```

```
2 values(115,'Dr.Kazi Gias Uddin',6661,'FCPS','Head of  
Department',01927641045,'kazigiyas.bd@gmail.com','male','6Hour',106000);
```

```
SQL> insert into doctors
```

```
2 values(116,'Dr.Nazma Haque',7771,'FCPS','Head of  
Department',01923211045,'nazma1.bd@gmail.com','male','5Hour',107000);
```

```
SQL> insert into doctors
```

```
2  
values(117,'Dr.Afrina',7771,'FCPS','professor',01927121045,'afrina.bd@gmail.com','Female',  
5Hour',700000);
```

```
SQL> insert into doctors
```

```
2 values(118,'Dr.Riyaj Mahmud',6661,'M.D','Associate  
Professor',01727121045,'riyaj.bd@gmail.com','male','6Hour',400000);
```

```
SQL> insert into doctors
```

```
2 values(119,'Dr.Imrul Saha',7771,'M.O','Associate  
Professor','01797121045','imrul.bd@gmail.com','male','5Hour',300000);
```

-----\*\*\*\*\*-----

### 3

```
create table departments
```

```
2 (  
3     department_id number,  
4     department_name varchar2(20),  
5     dept_doctor_id number,  
6     constraint departments_dept_doctor_id_fk foreign key(dept_doctor_id)  
7     references doctors(doctor_id)  
8 );
```

```
SQL> insert into departments
```

```
2 values(2221,'Anatomy',101);
```

```
SQL> insert into departments
```

```
2 values(2221,'Anatomy',102);
```

```
SQL> insert into departments
```

```
2 values(2221,'Anatomy',111);
```

```
SQL> insert into departments
```

```
2 values(3331,'Physiology',103);
```

```
SQL> insert into departments
```

```
2 values(3331,'Physiology',106);
```

```
SQL> insert into departments
```

```
2 values(3331,'Physiology',108);
```

```
SQL> insert into departments
```

```
2 values(4441,'Cardiac Surgery',104);
```

```
SQL> insert into departments
```

```
2 values(4441,'Cardiac Surgery',105);
```

```
SQL> insert into departments
```

```
2 values(4441,'Cardiac Surgery',109);
```

```
SQL> insert into departments
```

```
2 values(4441,'Cardiac Surgery',112);
```

```
SQL> insert into departments
```

```
2 values(5551,'Medicine',107);
```

```
SQL> insert into departments
```

```
2 values(5551,'Medicine',113);
```

```
SQL> insert into departments
```

```
2 values(5551,'Medicine',114);
```

```
SQL> insert into departments
```

```
2 values(6661,'Neurology',115);
```

```
SQL> insert into departments
```

```
2 values(6661,'Neurology',118);
```

```
SQL> insert into departments
```

```
2 values(7771,'Plastic Surgery',110);
```

```
SQL> insert into departments
```

```
2 values(7771,'Plastic Surgery',116);
```

```
SQL> insert into departments
```

```
2 values(7771,'Plastic Surgery',117);
```

```
SQL> insert into departments
```

```
2 values(7771,'Plastic Surgery',119);
```

```
-----*****-----
```

4

```
create table courses
```

```
2 (
```

```
3 course_id number constraint courses_course_id_pk primary key,
```

```
4 course_name varchar2(25)
```

```
5 );
```

```
SQL> insert into courses
```

```
2 values(2221,'Anatomy');
```

```
SQL> insert into courses
```

```
2 values(3331,'Physiology');
```

```
SQL> insert into courses
```

```
2 values(4441,'Cardiac Surgery');
```

```
SQL> insert into courses
```

```
2 values(5551,'Medicine');
```

```
SQL> insert into courses
```

```
2 values(6661,'Neurology');
```

```
SQL> insert into courses
2 values(7771,'Plastic Surgery');
```

-----\*\*\*\*\*-----

5

```
create table students
2 (
3  student_id number constraint students_student_id_pk primary key,
4  student_name varchar2(30),
5  level_term varchar2(25),
6  semester varchar2(15),
7  cours_code number,
8  constraint students_cours_code_fk foreign key(cours_code)
9  references courses(course_id),
10 session_start varchar2(15),
11 session_end varchar2(20),
12 email varchar2(30) constraint students_email_uk unique,
13 gender varchar2(8)
14 );
```

Table created.

```
insert into students
2 values(1111001,'Benjamin James','4-2','Spring',2221,'12-02-2016','12-02-
2021','benjaminstudent@gmail.com','Female');
```

```
insert into students
2 values(1111002,'Corine Alise','5-1','Spring',2221,'24-05-2014','24-05-
2019','corinestudent@gmail.com','Female');
```

```
SQL> insert into students
2 values(1111004,'Oscar Amaro','5-2','Summar',2221,'24-12-2014','24-05-
2019','oscarstudent@gmail.com','male');
```

```
SQL> insert into students
2 values(1111007,'Jackson William','3-1','Summar',3331,'24-12-2014','24-12-
2019','jacksonstudent@gmail.com','Female');
```



SQL> insert into students

```
2 values(1111008,'Allison Sue','3-2','Spring',3331,'20-05-2018','20-05-2023','allisonstudent@gmail.com','male');
```

SQL> insert into students

```
2 values(1111010,'Kathryn Melissa','4-1','Spring',5551,'20-02-2013','20-02-2018','kathrynstudent@gmail.com','male');
```

SQL> insert into students

```
2 values(1111011,'Philip John','2-1','Spring',5551,'20-09-2018','20-09-2023','philipstudent@gmail.com','Female');
```

SQL> insert into students

```
2 values(1111012,'Bianca Magali','2-1','Spring',4441,'20-09-2018','20-09-2023','biancastudent@gmail.com','male');
```

SQL> insert into students

```
2 values(1111015,'Benjamin Eli','2-2','Summar',6661,'06-04-2019','06-04-2024','elistudent@gmail.com','Female');
```

SQL> insert into students

```
2 values(1111016,'Emma Elizabeth','1-1','Spring',4441,'02-09-2020','02-09-2025','emmastudent@gmail.com','Female');
```

SQL> insert into students

```
2 values(1111017,'Lewis Yoder ','1-1','Spring',6661,'02-09-2020','02-09-2025','lewisstudent@gmail.com','male');
```

SQL> insert into students

```
2 values(1111020,'Alisha Dawn','1-2','Summar',6661,'05-04-2019','05-04-2024','alishastudent@gmail.com','Female');
```

SQL> insert into students

```
2 values(1111022,'Dana Michelle','5-2','Summar',7771,'24-12-2014','24-12-2019','danastudent@gmail.com','male');
```

SQL> insert into students

```
2 values(1111023,'Barrett William','3-1','Summar',6661,'24-12-2014','24-12-2019','barrettstudent@gmail.com','male');
```

```
SQL> insert into students
```

```
2 values(1111024,'Emily Ann','3-2','Summar',7771,'20-05-2018','20-05-2023','emilystudent@gmail.com','Female');
```

```
SQL> insert into students
```

```
2 values(1111027,'Kathryn Ellen ','2-2','Summar',7771,'10-05-2018','20-06-2023','ellenstudent@gmail.com','Female');
```

```
SQL> insert into students
```

```
2 values(1111030,'Emma Lynn','2-1','Spring',5551,'10-05-2018','20-06-2023','lyannstudent@gmail.com','male');
```

```
SQL> insert into students
```

```
2 values(1111033,'Erica Rose','5-1','Spring',2221,'24-05-2014','24-05-2019','rosetstudent@gmail.com','Female');
```

```
SQL> insert into students
```

```
2 values(1111037,'Nicole Lea','4-2','Spring',3331,'12-02-2016','24-05-2022','nicolestudent@gmail.com','male');
```

```
SQL> insert into students
```

```
2 values(1111038,'Nicholas Scott','4-1','Spring',4441,'20-02-2013','24-05-2019','scottstudent@gmail.com','male');
```

-----\*\*\*\*\*-----

6

```
create table classes
```

```
(  
  cour_id number,  
  constraint classes_cour_id_fk foreign key(cour_id)  
  references courses(course_id),  
  time varchar2(10),  
  schedule date default sysdate,  
  prof_id number,
```

```
constraint classes_prof_id_fk foreign key(prof_id)
references doctors(doctor_id)
);
```

Table created.

```
SQL> insert into classes
values(2221,'7.30','4-jul-2017',101);
```

```
SQL> insert into classes
values(2221,'7.30','5-jul-2017',102);
```

```
SQL> insert into classes
values(2221,'7.30','6-jul-2017',103);
```

```
SQL> insert into classes
values(3331,'7.00','10-jul-2017',104);
```

```
SQL> insert into classes
values(3331,'8.00','11-jul-2017',105);
```

```
SQL> insert into classes
values(3331,'8.00','12-jul-2017',107);
```

```
SQL> insert into classes
values(4441,'9.30','13-jul-2017',108);
```

```
SQL> insert into classes
values(4441,'3.30','14-jul-2017',109);
```

```
SQL> insert into classes
values(4441,'11.00','15-jul-2017',110);
```

```
SQL> insert into classes
values(4441,'11.00','16-jul-2017',111);
```

```
SQL> insert into classes
values(5551,'2.30','1-jul-2017',112);
```

```
SQL> insert into classes  
values(5551,'12.30','03-jul-2017',113);
```

```
SQL> insert into classes  
values(6661,'2.00','08-jul-2017',114);
```

```
SQL> insert into classes  
values(6661,'3.00','09-jul-2017',115);
```

```
SQL> insert into classes  
values(7771,'3.00','18-jul-2017',118);
```

```
SQL> insert into classes  
values(7771,'5.40','19-jul-2017',110);
```

```
SQL> insert into classes  
values(7771,'5.40','23-jul-2017',116);
```

```
SQL> insert into classes  
values(7771,'2.40','25-jul-2017',117);
```

```
SQL> insert into classes  
values(5551,'7.00','28-jul-2017',119);
```

```
-----*****-----
```

7

```
create table internship  
2 (  
3 Intern_student_name varchar2(35),  
4 salary number constraint internship_salary_nn not null,  
5 working_hour varchar2(20)  
6 );
```

Table created.

```
SQL> insert into internship  
2 values('Sabikon Nahar',60000,'7 hour');
```

```
SQL> insert into internship
```

```
2 values('Oishi Liza',60000,'7 hour');

SQL> insert into internship
2 values('Tanannam Islam',50000,'6 hour');

SQL> insert into internship
2 values('Joty Islam',50000,'6 hour');

SQL> insert into internship
2 values('Nahin Hasan',55000,'6.5 hour');

SQL> insert into internship
2 values('Forhad Uddin',65000,'6 hour');

SQL> insert into internship
2 values('Nuri Zerine',45000,'4 hour');

SQL> insert into internship
2 values('Brinty Alam',45000,'4 hour');

SQL> insert into internship
2 values('Fariha Alam',30000,'3 hour');

SQL> insert into internship
2 values('Sonia Akter',40000,'5 hour');

SQL> insert into internship
2 values('Tania Akter',45000,'5 hour');

SQL> insert into internship
2 values('Md.Mamun',60000,'6 hour');

SQL> insert into internship
2 values('Al Mahmud',56000,'6 hour');

SQL> insert into internship
2 values('Ahosan Habib',50000,'5 hour');

SQL> insert into internship
2 values('Umme Habiba',30000,'3 hour');
```

-----\*\*\*\*\*-----

```
create table thesis
2 (
3 lerner_id number,
4 constraint thesis_lerner_id_fk foreign key(lerner_id)
5 references students(student_id),
6 professor_id number,
7 constraint thesis_professor_id_fk foreign key(professor_id)
8 references doctors(doctor_id),
9 paper_name varchar2(45)
10 );
```

Table created.

```
insert into thesis
2 values(1111024,104,'Epidemics versus pandemics');
```

```
SQL> insert into thesis
2 values(1111037,102,'Child health care');
```

```
SQL> insert into thesis
2 values(1111038,107,'Medical humanitarian missions');
```

```
SQL> insert into thesis
2 values(1111001,108,");
```

```
SQL> insert into thesis
2 values(1111001,108,'Homoeopathic medicines - the placebo effect');
```

```
SQL> insert into thesis
2 values(1111004,104,'Virus infections - causes and treatment');
```

```
SQL> insert into thesis
2 values(1111010,105,'Is medical research on animals ethical');
```

```
SQL> insert into thesis
2 values(1111022,107,'Vaccination - dangers versus benefits');
```

```
SQL> insert into thesis
2 values(1111002,104,'Artificial tissues and organs');
```

```
SQL> insert into thesis
2 values(1111033,102,'Rare genetic diseases');
```

```
SQL> insert into thesis
2 values(1111008,103,'Brain injuries');
```

-----\*\*\*\*\*-----

9

```
create table locations
2 (
3 street_address varchar2(20),
4 postal_code number constraint locations_postal_code_uk unique,
5 location_id number,
6 st_id number,
7 constraint locations_st_id_fk foreign key(st_id)
8 references students(student_id),
9 d_id number,
10 constraint locations_d_id_fk foreign key(d_id)
11 references doctors(doctor_id)
12 );
```

Table created.

```
insert into locations
2 values('Aalto Place',3500,1000,1111001,101);
```

```
insert into locations
2 values('Abaco Path',4500,2000,1111002,102);
```

```
SQL> insert into locations
2 values('Abana Path',2300,3000,1111004,103);
```

```
SQL> insert into locations
2 values('Abasco Court',2200,4000,1111007,104);
```

```
SQL> insert into locations
2 values('Abbeville Loop',2100,5000,1111008,105);
```

```
SQL> insert into locations
2 values('Abbey Way',3700,6000,1111011,107);
```

```
SQL> insert into locations  
2 values('Abel Place',3900,7000,1111012,108);
```

```
SQL> insert into locations  
2 values('Abercorn Court',2900,8000,1111015,109);
```

```
SQL> insert into locations  
2 values('Abner Street',1200,9000,1111017,110);
```

```
SQL> insert into locations  
2 values('Acosta Court',1100,1001,1111020,111);
```

```
SQL> insert into locations  
2 values('Adams Lane',2800,1002,1111022,112);
```

```
SQL> insert into locations  
2 values('Addison Avenue',1300,2002,1111023,113);
```

```
SQL> insert into locations  
2 values('Adriana Way',2400,2003,1111024,114);
```

```
SQL> insert into locations  
2 values('Afton Avenue',2600,3003,1111030,115);
```

```
SQL> insert into locations  
2 values('Afton Avenue',4800,5000,1111033,116);
```

```
SQL> insert into locations  
2 values('Adriana Way',1900,6000,1111037,118);
```

```
SQL> insert into locations  
2 values('Addison Avenue',2500,7000,1111038,119);
```

```
-----*****-----
```



```
create table regions
2 (
3 region_id number,
4 region_name varchar2(30)
5 );

SQL> insert into regions
2 values(3500,'Europe');

SQL> insert into regions
2 values(4500,'Americas');

SQL> insert into regions
2 values(2300,'Asia');

SQL> insert into regions
2 values(2200,'Middle East and Africa');

SQL> insert into regions
2 values(2100,'Americas');

SQL> insert into regions
2 values(3700,'Americas');

SQL> insert into regions
2 values(3900,'Middle East and Africa');

SQL> insert into regions
2 values(2900,'Asia');

SQL> insert into regions
2 values(1200,'Middle East and Africa');

SQL> insert into regions
2 values(1100,'Europe');

SQL> insert into regions
2 values(2800,'Americas');

SQL> insert into regions
2 values(1300,'Americas');
```

```
SQL> insert into regions
2 values(1300,'Europe');

SQL> insert into regions
2 values(2400,'Americas');

SQL> insert into regions
2 values(2600,'Europe');

SQL> insert into regions
2 values(2500,'Middle East and Africa');

SQL> insert into regions
2 values(1900,'Middle East and Africa');

SQL> insert into regions
2 values(4800,'Middle East and Africa');
```

-----\*\*\*\*\*-----

11

```
create table duty
2 (
3 emp_id number,
4 constraint duty_emp_id_fk foreign key(emp_id)
5 references students(student_id),
6 cabin_no number
7 );
```

Table created.

```
insert into duty
2 values(1111001,20);
```

```
SQL> insert into duty
2 values(1111002,21);
```

```
SQL> insert into duty
2 values(1111004,22);
```

```
SQL> insert into duty
2 values(1111007,23);
```

```
SQL> insert into duty
```

```
2 values(1111008,24);
```

```
SQL> insert into duty  
2 values(1111010,25);
```

```
SQL> insert into duty  
2 values(1111011,26);
```

```
SQL> insert into duty  
2 values(1111012,27);
```

```
SQL> insert into duty  
2 values(1111015,28);
```

```
SQL> insert into duty  
2 values(1111016,29);
```

```
SQL> insert into duty  
2 values(1111017,20);
```

```
SQL> insert into duty  
2 values(1111020,21);
```

```
SQL> insert into duty  
2 values(1111022,22);
```

```
SQL> insert into duty  
2 values(1111023,23);
```

```
SQL> insert into duty  
2 values(1111024,24);
```

```
SQL> insert into duty  
2 values(1111027,25);
```

```
SQL> insert into duty  
2 values(1111030,26);
```

```
SQL> insert into duty  
2 values(1111033,27);
```

```
SQL> insert into duty  
2 values(1111037,28);
```

```
SQL> insert into duty  
2 values(1111038,29);
```

-----\*\*\*\*\*-----

## 12

```
create table patient  
2 (  
3 patient_name varchar2(30),  
4 patient_id number constraint patient_patient_id_pk primary key,  
5 room_no number constraint patient_room_no_uk unique  
6 );
```

Table created.

```
insert into patient  
2 values('Lotfa Yesmin',600,20);
```

```
SQL> insert into patient  
2 values('Lotifa Ara',601,21);
```

```
SQL> insert into patient  
2 values('Mohammad Arafat',602,22);
```

```
SQL> insert into patient  
2 values('Md.AR Rahman',603,23);
```

```
SQL> insert into patient  
2 values('Nijum Islam',604,24);
```

```
SQL> insert into patient  
2 values('Suborna Alam',605,25);
```

```
SQL> insert into patient  
2 values('Fatema Alam',606,26);
```

```
SQL> insert into patient
```

```
2 values('Moriyam Ara',607,27);
```

```
SQL> insert into patient
```

```
2 values('Jahid Hasan',608,28);
```

```
SQL> insert into patient
```

```
2 values('Habib',609,29);
```

```
-----*****-----
```

## 13

```
create table Pharmaceotical
```

```
2 (
```

```
3 drugs_code number,
```

```
4 constraint pharmaceutical_drugs_code_fk foreign key(drugs_code)
```

```
5 references courses(course_id),
```

```
6 total_drugs number,
```

```
7 company_no number,
```

```
8 company_name varchar2(20),
```

```
9 pharmacy_staff number,
```

```
10 total_salary number
```

```
11 );
```

Table created.

```
insert into pharmaceotical
```

```
2 values(2221,275990,901,'Squar Pharmaceutical',6506,1706875);
```

```
SQL> insert into pharmaceotical
```

```
2 values(3331,378949,901,'Squar Pharmaceutical',7095,1567342);
```

```
SQL> insert into pharmaceotical
```

```
2 values(4441,564738,901,'Squar Pharmaceutical',5694,1435637);
```

```
SQL> insert into pharmaceotical
```

```
2 values(5551,342563,901,'Squar Pharmaceutical',8794,1243567);
```

```
SQL> insert into pharmaceotical
```

```
2 values(6661,234352,901,'Squar Pharmaceutical',9804,12435673);
```

```
SQL> insert into pharmaceotical
```

```
2 values(7771,125342,901,'Squar Pharmaceutical',9805,1324567);
```

```
SQL> insert into pharmaceotical
```

```
2 values(2221,234152,902,'Incpta Pharmacetical',8795,1233443);
```

```
SQL> insert into pharmaceotical
  2 values(3331,7634432,902,'Incpta Pharmaceutical',9804,1345267);

SQL> insert into pharmaceotical
  2 values(4441,764232,902,'Incpta Pharmaceutical',7984,1654324);

SQL> insert into pharmaceotical
  2 values(5551,222243516,902,'Incpta Pharmaceutical',9784,1787453);

SQL> insert into pharmaceotical
  2 values(6661,542314,902,'Incpta Pharmaceutical',8976,1786543);

SQL> insert into pharmaceotical
  2 values(7771,543263,902,'Incpta Pharmaceutical',8675,1887536);

SQL> insert into pharmaceotical
  2 values(2221,452312,903,'Bexim Pharmaceutical',8769,1345632);

SQL> insert into pharmaceotical
  2 values(3331,524373,903,'Bexim Pharmaceutical',9787,1785434);

SQL> insert into pharmaceotical
  2 values(4441,624373,903,'Bexim Pharmaceutical',9687,1876453);

SQL> insert into pharmaceotical
  2 values(5551,652341,903,'Bexim Pharmaceutical',8676,1456372);

SQL> insert into pharmaceotical
  2 values(6661,452341,903,'Bexim Pharmaceutical',7568,1764538);

SQL> insert into pharmaceotical
  2 values(7771,564265,903,'Bexim Pharmaceutical',9686,1874646);

SQL> insert into pharmaceotical
  2 values(2221,564265,904,'Opsonin Pharma Ltd',9687,1875327);

SQL> insert into pharmaceotical
  2 values(3331,554265,904,'Opsonin Pharma Ltd',8987,1988374);

SQL> insert into pharmaceotical
  2 values(4441,854265,904,'Opsonin Pharma Ltd',9987,1678374);

SQL> insert into pharmaceotical
```

```
2 values(5551,554265,904,'Opsonin Pharma Ltd',6087,9876543);

SQL> insert into pharmaceotical
2 values(6661,934562,904,'Opsonin Pharma Ltd',8988,1897645);

SQL> insert into pharmaceotical
2 values(7771,334562,904,'Opsonin Pharma Ltd',5688,1637645);

SQL> insert into pharmaceotical
2 values(2221,764562,905,'Renata Limited',9688,1237645);

SQL> insert into pharmaceotical
2 values(3331,764562,905,'Renata Limited',5688,9837645);

SQL> insert into pharmaceotical
2 values(4441,864562,905,'Renata Limited',7788,6537645);

SQL> insert into pharmaceotical
2 values(5551,434562,905,'Renata Limited',8888,3437645);

SQL> insert into pharmaceotical
2 values(6661,494562,905,'Renata Limited',4488,9937645);

SQL> insert into pharmaceotical
2 values(7771,784562,905,'Renata Limited',2188,1937645);

SQL> insert into pharmaceotical
2 values(2221,894562,906,'Healthcare Limited.',9253,7435629);

SQL> insert into pharmaceotical
2 values(3331,934562,906,'Healthcare Limited.',6253,2535629);

SQL> insert into pharmaceotical
2 values(4441,932562,906,'Healthcare Limited.',9373,4355629);

SQL> insert into pharmaceotical
2 values(5551,659562,906,'Healthcare Limited.',6543,4357429);

SQL> insert into pharmaceotical
2 values(6661,659562,906,'Healthcare Limited.',9763,9457429);

SQL> insert into pharmaceotical
2 values(7771,659562,906,'Healthcare Limited.',9763,9457429);
```

-----\*\*\*\*\*-----

14

```
create table results
2 (
3 id number constraint results_id_uk unique
4 ,
5 level_term varchar2(10),
6 CGPA number
7 );
```

```
insert into results
2 values(1111001,'4-2',3.35);
```

```
SQL> insert into results
2 values(1111002,'5-1',3.98);
```

```
SQL> insert into results
2 values(1111004,'5-2',3.76);
```

```
SQL> insert into results
2 values(1111007,'3-1',3.85);
```

```
SQL> insert into results
2 values(1111008,'3-2',3.56);
```

```
SQL> insert into results
2 values(1111010,'4-1',3.87);
```

```
SQL> insert into results
2 values(1111011,'2-1',3.65);
```

```
SQL> insert into results
2 values(1111012,'2-1',4.00);
```

```
SQL> insert into results
2 values(1111015,'2-2',3.22);
```

```
SQL> insert into results
2 values(1111016,'1-1',3.98);
```

```
SQL> insert into results
2 values(1111017,'1-1',2.98);
```



```
SQL> insert into results
2 values(1111022,'5-2',3.99);

SQL> insert into results
2 values(1111023,'3-1',3.45);

SQL> insert into results
2 values(1111024,'3-2',3.33);

SQL> insert into results
2 values(1111027,'3-2',3.22);

SQL> insert into results
2 values(1111030,'1-2',3.22);

SQL> insert into results
2 values(1111033,'5-2',3.66);

SQL> insert into results
2 values(1111037,'5-1',3.88);

SQL> insert into results
2 values(1111038,'4-1',3.63);
```

-----\*\*\*\*\*-----

15

```
create table
2 taken_book
3 (
4 assigned_id number,
5 constraint taken_book_assigned_id_fk foreign key(assigned_id)
6 references students(student_id),
7 issue_date varchar2(30),
8 enrolled_book varchar2(100),
9 last_date varchar2(30),
10 penalty number
11 );
```

Table created.

```
insert into taken_book
```

```
2 values(1111001,'4/6/2017','The Man Who Mistook His Wife for a Hat and Other Clinical  
Tales (Paperback)','4/7/2017',0);
```

```
SQL> insert into taken_book
```

```
2 values(1111002,'4/6/2017','Musicophilia: Tales of Music and the Brain','5/7/2017',100);
```

```
SQL> insert into taken_book
```

```
2 values(1111004,'6/5/2017','Hallucinations','5/6/2017',0);
```

```
SQL> insert into taken_book
```

```
2 values(1111007,'2/5/2017','The Mind Eye (Hardcover)','1/6/2017',200);
```

```
SQL> insert into taken_book
```

```
2 values(1111008,'4/6/2017','The Real Beauty Bible','29/6/2017',200);
```

```
SQL> insert into taken_book
```

```
2 values(1111010,'18/6/2017','After the Cut','29/6/2017',50);
```

```
SQL> insert into taken_book
```

```
2 values(1111011,'18/4/2017','After the Cut','29/5/2017',0);
```

```
SQL> insert into taken_book
```

```
2 values(1111012,'18/4/2017','CC Chatterjee Human Physiology','29/5/2017',100);
```

```
SQL> insert into taken_book
```

```
2 values(1111015,'1/4/2017','Perspectives in Cardiothoracic Surgery (Volume  
V)','29/5/2017',200);
```

```
SQL> insert into taken_book
```

```
2 values(1111016,'1/4/2017','Samson Wrights Applied Physiology','2/5/2017',0);
```

```
SQL> insert into taken_book
```

```
2 values(1111017,'1/4/2017','Samson Wrights Applied Physiology','2/5/2017',60);
```

-----\*\*\*\*\*-----

16

```
create table library
```

```
2 (
```

```
3 book_name varchar2(100),
```

```
4 writer_name varchar2(100),
```

```
5 available_book number,
```

```
6 dept_lib_code number,
```

```
7 constraint library_dept_lib_code_fk foreign key(dept_lib_code)
```

```
8 references courses(course_id)
9 );
```

Table created.

insert into library

```
2 values('Atlas of Human Anatomy','Ythkui Aky',6,2221);
```

SQL> insert into library

```
2 values('Ross and Wilson Anatomy and Physiology in Health and Illness','Yustud
Akai',7,2221);
```

SQL> insert into library

```
2 values('Clinical Anatomy: Applied Anatomy for Students and Junior Doctors','Abul Kamal
Asad',4,2221);
```

SQL> insert into library

```
2 values('Gray Anatomy for Students, 4th Edition.','Asaduzzamn',3,2221);
```

SQL> insert into library

```
2 values('Ghai Textbook of Practical Physiology','Monir Ahmed',8,3331);
```

SQL> insert into library

```
2 values('Ganongs Review of Medical Physiology','Ahemd Monir',9,3331);
```

SQL> insert into library

```
2 values('Samson Wrights Applied Physiology','Yousof Ahmed',4,3331);
```

SQL> insert into library

```
2 values('CC Chatterjee Human Physiology','Farida parbin',6,3331);
```

SQL> insert into library

```
2 values('Perspectives in Cardiothoracic Surgery (Volume V)','Miyataf Ara',6,4441);
```

SQL> insert into library

```
2 values('Atlas of Robotic Cardiac Surgery','Ahammed Hafij',5,4441);
```

SQL> insert into library

```
2 values('Manual of Perioperative Care in Adult Cardiac Surgery','Noulen Kabir',5,4441);
```

SQL> insert into library

```
2 values('TSRA Clinical Scenarios in Cardiothoracic Surgery','Prava Islam',9,4441);
```

SQL> insert into library

```
2 values('The Man Who Mistook His Wife for a Hat and Other Clinical Tales
(Paperback)', 'Parbin Begum', 9, 5551);
```

```
SQL> insert into library
```

```
2 values('Musicophilia: Tales of Music and the Brain', 'Muniara Alam', 6, 6661);
```

```
SQL> insert into library
```

```
2 values('Hallucinations', 'Uynas Kil', 6, 6661);
```

```
SQL> insert into library
```

```
2 values('Hallucinations', 'Uynas Kil', 6, 6661);
```

```
SQL> insert into library
```

```
2 values('The Minds Eye (Hardcover)', 'Ayatrdat Akil', 12, 7771);
```

```
SQL> insert into library
```

```
2 values('The Real Beauty Bible', 'Md.Easin', 22, 7771);
```

```
SQL> insert into library
```

```
2 values('After the Cut', 'Arafat Islam', 32, 7771);
```

```
SQL> insert into library
```

```
2 values('Plastic Surgery of the Face', 'Rabbi Fazle', 22, 7771);
```

-----\*\*\*\*\*-----

17

```
create table alumni
```

```
2 (
3 alumni_id number constraint alumni_alumni_id_pk primary key,
4 alumni_name varchar2(50),
5 alumni_cgpa number,
6 alumni_dept_code number,
7 constraint alumni_alumni_dept_code_fk foreign key(alumni_dept_code)
8 references courses(course_id),
9 hospital_name varchar2(80),
10 passing_year number
11 );
```

Table created.

```
SQL> insert into alumni
```

```
2 values(222201, 'Sabikon Nahar', 3.87, 2221, 'Square Hospital.', 2001);
```

```
SQL> insert into alumni
  2 values(222202,'Oishi Liza',3.87,2221,'Sheikh Fazilatunnesa Mujib Memorial KPJ
Specialized Hospital and Nursing College.',2001);

SQL> insert into alumni
  2 values(222203,'Tanannam Islam',3.67,2221,'Popular Diagnostic Centre Ltd.',2001);

SQL> insert into alumni
  2 values(222204,'Joty Islam',3.67,2221,'Popular Diagnostic Centre Ltd.',2001);

SQL> insert into alumni
  2 values(222205,'Nahin Hasan',3.67,2221,'Labaid Hospitals.',2002);

SQL> insert into alumni
  2 values(222206,'Forhad Uddin',3.97,2221,'Ibn Sina Specialized Hospital.',2002);

SQL> insert into alumni
  2 values(222207,'Nuri Zerin',3.97,2221,'United Hospital Limited.',2003);

SQL> insert into alumni
  2 values(333301,'Sabikon Nahar',4.00,3331,'Harun Eye Foundation Hospital.',2001);

SQL> insert into alumni
  2 values(333302,'Lotfa Yesmin',4.00,3331,'Square Hospital.',2005);

SQL> insert into alumni
  2 values(333303,'Oishi Liza',4.00,3331,'Sheikh Fazilatunnesa Mujib Memorial KPJ
Specialized Hospital & Nursing College.',2005);

SQL> insert into alumni
  2 values(333304,'Lotifa Ara',4.00,3331,'Popular Diagnostic Centre Ltd.',2006);

SQL> insert into alumni
  2 values(333305,'Mohammad Arafat',4.00,3331,'Anwer Khan Modern Hospital Ltd,
Dhaka',2007);

SQL> insert into alumni
  2 values(333306,'Md.AR Rahman',4.00,3331,'Evercare Hospital Dhaka[3]',2002);

SQL> insert into alumni
  2 values(444401,'Nijum Islam',3.97,4441,'Asgar Ali Hospital Gandaria, Dhaka[4]',2001);

SQL> insert into alumni
```

```
2 values(444402,'Suborna Alam',3.97,4441,'Aysha Memorial Specialised Hospital,
Dhaka',2003);

SQL> insert into alumni
2 values(444403,'Fatema Alam',3.97,4441,'Bangabandhu Memorial Hospital (BBMH),
Chittagong',2003);

SQL> insert into alumni
2 values(444404,'Moriyam Ara',3.87,4441,'Bangabandhu Sheikh Mujib Medical
University',2003);

SQL> insert into alumni
2 values(444405,'Jahid Hasan',3.87,4441,'Bangladesh College of Nursing',2003);

SQL> insert into alumni
2 values(444407,'Habib',3.87,4441,'Bangladesh Eye Hospital Limited, Dhaka[5]',2003);

SQL> insert into alumni
2 values(555501,'Lotfa Yesmin',3.87,5551,'Bangladesh Medical College Hospital,
Dhaka',2004);

SQL> insert into alumni
2 values(555502,'Lotifa Ara',3.87,5551,'Bangladesh Specialized Hospital',2004);

SQL> insert into alumni
2 values(555503,'Lotifiara Khan',3.87,5551,'Bangladesh Spine and Orthopaedic General
Hospital Ltd, Panthapath, Dhaka',2004);

SQL> insert into alumni
2 values(555504,'Nazma lotifiara Khan',3.87,5551,'Anwer Khan Modern Hospital Ltd,
Dhaka',2004);

SQL> insert into alumni
2 values(666601,'Nijum Islam',3.57,6661,'Evercare Hospital Dhaka',2000);

SQL> insert into alumni
2 values(666602,'Nijum Dus',3.57,6661,'Asgar Ali Hospital Gandaria, Dhaka[4]',2000);

SQL> insert into alumni
2 values(666603,'Nijum Dus',3.57,6661,'Aysha Memorial Specialised Hospital, Dhaka',2000);

SQL> insert into alumni
2 values(666604,'Moriyam Ara',3.77,6661,'Bangabandhu Memorial Hospital (BBMH),
Chittagong',2000);
```

```
SQL> insert into alumni
  2 values(777701,'Moriyam Arafat',3.77,7771,'Bangabandhu Sheikh Mujib Medical
University',2000);

SQL> insert into alumni
  2 values(777702,'Addison Avenue',3.79,7771,'Bangladesh College of Nursing',2000);

SQL> insert into alumni
  2 values(777703,'Adriana Way',3.79,7771,'Bangladesh Eye Hospital Limited,
Dhaka[5]',2000);

SQL> insert into alumni
  2 values(777704,'Afton Avenue',3.79,7771,'Bangladesh Medical College Hospital,
Dhaka',2000);

SQL> insert into alumni
  2 values(777705,'Afton Avenue',3.54,7771,'Bangladesh Specialized Hospital',2000);

-----*****-----
```

18

```
create table events
(
  event_name varchar2(50),
  organizer varchar2(50),
  event_date varchar2(10) constraint events_event_date_nn not null,
  event_starting_time number,
  event_ending_time number,
  venue varchar2(50) constraint events_venue_nn not null,
  event_participant_id number,
  constraint events_event_participant_id_fk foreign key(event_participant_id)
  references students(student_id)
);
```

Table created.

```
insert into events
  2 values('Website Lunching Ceremony','Incepta pharmaceuticals limited','26-7-
2015',10.00,11.30,'DMC Principal Meeting Room',1111002);
```

```
SQL> insert into events
  values('Website Lunching Ceremony','Incepta pharmaceuticals limited','26-7-
2015',10.00,11.30,'DMC Principal Meeting Room',1111007);
```

```
SQL> insert into events  
values('Website Lunching Ceremony','Incepta pharmaceuticals limited','26-7-  
2015',10.00,11.30,'DMC Principal Meeting Room',1111008);
```

```
SQL> insert into events  
values('DMC Day','Incepta pharmaceuticals limited','01-07-2016',10.00,4.30,'DMC Principal  
Meeting Room',1111008);
```

```
SQL> insert into events  
values('DMC Day','Incepta pharmaceuticals limited','01-07-2016',10.00,4.30,'DMC Principal  
Meeting Room',1111016);
```

```
SQL> insert into events  
values('DMC Day','Incepta pharmaceuticals limited','01-07-2016',10.00,4.30,'DMC Principal  
Meeting Room',1111007);
```

```
SQL> insert into events  
values('DMC Day','Incepta pharmaceuticals limited','01-07-2016',10.00,4.30,'DMC Principal  
Meeting Room',1111017);
```

```
SQL> insert into events  
values('Card Day','Incepta pharmaceuticals limited','20-07-2016',10.00,4.40,'DMC Principal  
Meeting Room',1111001);
```

```
SQL> insert into events  
values('Card Day','Incepta pharmaceuticals limited','20-07-2016',10.00,4.40,'DMC Principal  
Meeting Room',1111002);
```

```
SQL> insert into events  
values('Card Day','Incepta pharmaceuticals limited','20-07-2016',10.00,4.40,'DMC Principal  
Meeting Room',1111007);
```

```
SQL> insert into events  
values('Card Day','Incepta pharmaceuticals limited','20-07-2016',10.00,4.40,'DMC Principal  
Meeting Room',1111016);
```

```
SQL> insert into events  
values('Card Day','Incepta pharmaceuticals limited','20-07-2016',10.00,4.40,'DMC Principal  
Meeting Room',1111037);
```

```
SQL> insert into events  
values('Card Day','Incepta pharmaceuticals limited','20-07-2016',10.00,4.40,'DMC Principal  
Meeting Room',1111038);
```

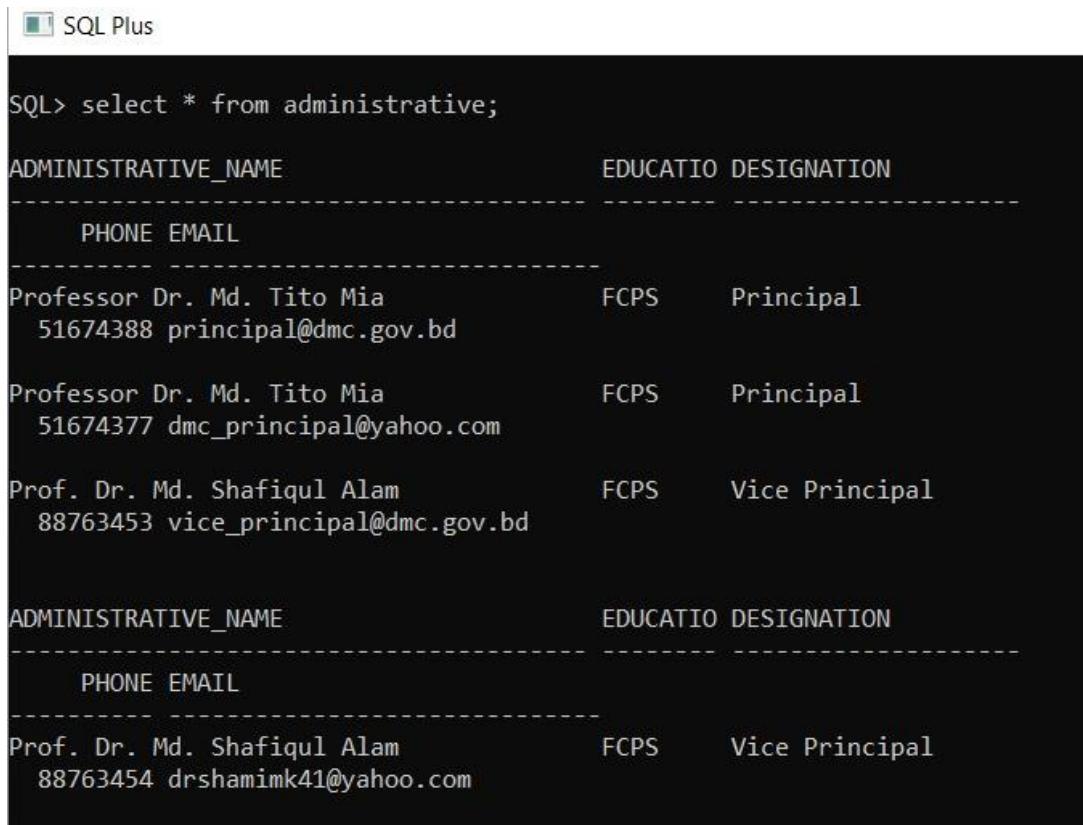


-----\*\*\*\*\*-----

## Examples of queries

### 1) Find all the information of administrators.

```
select * from administrative;
```



```
SQL> select * from administrative;
```

ADMINISTRATIVE_NAME	EDUCATIO	DESIGNATION	PHONE	EMAIL
Professor Dr. Md. Tito Mia	FCPS	Principal	51674388	principal@dmc.gov.bd
Professor Dr. Md. Tito Mia	FCPS	Principal	51674377	dmc_principal@yahoo.com
Prof. Dr. Md. Shafiqul Alam	FCPS	Vice Principal	88763453	vice_principal@dmc.gov.bd

ADMINISTRATIVE_NAME	EDUCATIO	DESIGNATION
Prof. Dr. Md. Shafiqul Alam	FCPS	Vice Principal

### 2) Find doctor id and his salary and mail address using renaming with formal name.

```
select doctor_id as id,salary,email as email_address  
from doctors;
```

```
SQL> select doctor_id as id,salary,email as email_address
2  from doctors;
```

ID	SALARY	EMAIL_ADDRESS
101	103000	segupta.bd@gmail.com
102	103000	shakil.bd@gmail.com
103	102000	dilruba.bd@gmail.com
104	103000	nahid.bd@gmail.com
105	90000	pourobi.bd@gmail.com
106	103000	konika.bd@gmail.com
107	60000	odhir.bd@gmail.com
108	80000	shimato.bd@gmail.com
109	60000	tahmina.bd@gmail.com
110	105000	urmy.bd@gmail.com
111	500000	rashada.bd@gmail.com

ID	SALARY	EMAIL_ADDRESS
112	101000	mousumi.bd@gmail.com
113	75000	sanjida.bd@gmail.com
114	450000	tabassum.bd@gmail.com
115	106000	kazigiyas.bd@gmail.com
116	107000	nazma1.bd@gmail.com
117	700000	afrina.bd@gmail.com
118	400000	riyaj.bd@gmail.com
119	300000	imrul.bd@gmail.com

19 rows selected.

3) select intern\_student\_name as name, salary+1000 "Amount Salary"  
from internship;

```
SQL> select intern_student_name as name, salary+1000 "Amount Salary"
2  from internship;
```

NAME	Amount Salary
Sabikon Nahar	61000
Oishi Liza	61000
Tanannam Islam	51000
Joty Islam	51000
Nahin Hasan	56000
Forhad Uddin	66000
Nuri Zerín	46000
Brinty Alam	46000
Fariha Alam	31000
Sonia Akter	41000
Tania Akter	46000

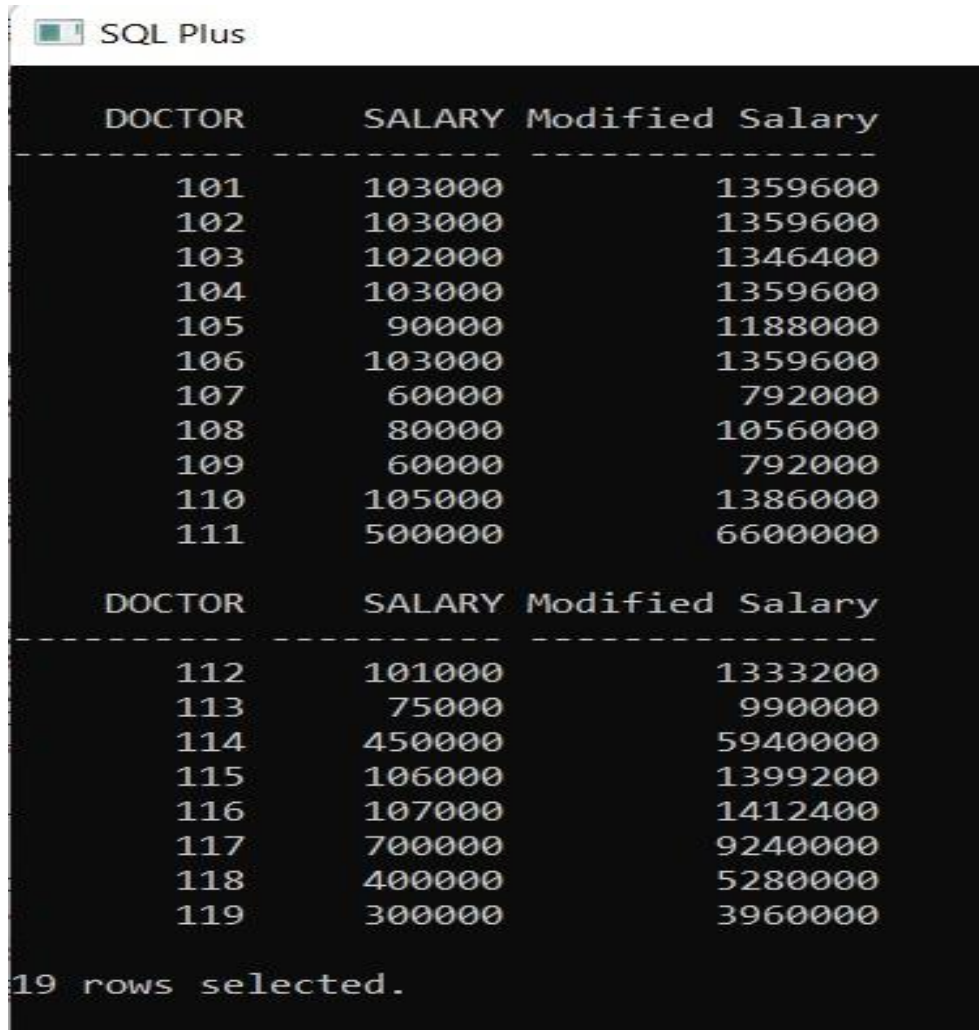
  

NAME	Amount Salary
Md.Mamun	61000
Al Mahmud	57000
Ahosan Habib	51000
Umme Habiba	31000

15 rows selected.

4) Show the doctor id and salary using generalized projection method.

```
select doctor_id as doctor,salary,((salary+(salary*10)/100)*12)  
"Modified Salary"  
from doctors;
```



DOCTOR	SALARY	Modified Salary
101	103000	1359600
102	103000	1359600
103	102000	1346400
104	103000	1359600
105	90000	1188000
106	103000	1359600
107	60000	792000
108	80000	1056000
109	60000	792000
110	105000	1386000
111	500000	6600000
112	101000	1333200
113	75000	990000
114	450000	5940000
115	106000	1399200
116	107000	1412400
117	700000	9240000
118	400000	5280000
119	300000	3960000

19 rows selected.

5) Concat doctor id and his department name.

```
select dept_doctor_id || ' then dept name of this id is: ' || department_name  
"Information of departments"  
from departments;
```

Information of departments

```
-----  
101 then dept name of this id is: Anatomy  
102 then dept name of this id is: Anatomy  
111 then dept name of this id is: Anatomy  
103 then dept name of this id is: Physiology  
106 then dept name of this id is: Physiology  
108 then dept name of this id is: Physiology  
104 then dept name of this id is: Cardiac Surgery  
105 then dept name of this id is: Cardiac Surgery  
109 then dept name of this id is: Cardiac Surgery  
112 then dept name of this id is: Cardiac Surgery  
107 then dept name of this id is: Medicine
```

Information of departments

```
-----  
113 then dept name of this id is: Medicine  
114 then dept name of this id is: Medicine  
115 then dept name of this id is: Neurology  
118 then dept name of this id is: Neurology  
110 then dept name of this id is: Plastic Surgery  
116 then dept name of this id is: Plastic Surgery  
117 then dept name of this id is: Plastic Surgery  
119 then dept name of this id is: Plastic Surgery
```

19 rows selected.

**6) Find the date or schedule on which day course\_code:4441 class will be held.**

select time,schedule "Date of class"

2 from classes

3 where cour\_id = 4441;

```
SQL> select time,schedule "Date of class"
2  from classes
3  where cour_id = 4441;
```

TIME	Date of class
9.30	13/7/2017
3.30	14/7/2017
11.00	15/7/2017
11.00	16/7/2017

**7) Show the name and visiting hour of internship doctors whom salary is greater than 50000.**

```
select intern_student_name as name,working_hour "Visiting Hour"
from internship
where salary > 50000;
```

```
SQL> select intern_student_name as name,working_hour "Visiting Hour"
2  from internship
3  where salary > 50000;
```

NAME	Visiting Hour
Sabikon Nahar	7 hour
Oishi Liza	7 hour
Nahin Hasan	6.5 hour
Forhad Uddin	6 hour
Md.Mamun	6 hour
Al Mahmud	6 hour

6 rows selected.



**8) Find name of students whom emp\_id are 1111007,1111008,1111017,1111037,1111038.**

```
select student_name, level_term  
from students join duty  
on (student_id=emp_id)  
where emp_id in(1111007,1111008,1111017,1111037,1111038);
```

```
SQL> select student_name, level_term  
2  from students join duty  
3  on (student_id=emp_id)  
4  where emp_id in(1111007,1111008,1111017,1111037,1111038);
```

STUDENT_NAME	LEVEL_TERM
Jackson William	3-1
Allison Sue	3-2
Lewis Yoder	1-1
Nicole Lea	4-2
Nicholas Scott	4-1

**9) Show this kind of pharmaceutical company name their drugs code,total drugs,company no and salary of staff whose starting name is renata.**

```
select company_name as name,drugs_code,total_drugs,company_no,total_salary as salary  
  
from pharmaceutical  
  
where company_name like 'Renata%';
```

```
SQL> select company_name as name,drugs_code,total_drugs,company_no,total_salary as salary
2  from pharmaceutical
3  where company_name like 'Renata%'
4  ;
```

NAME	DRUGS_CODE	TOTAL_DRUGS	COMPANY_NO	SALARY
Renata Limited	2221	764562	905	1237645
Renata Limited	3331	764562	905	9837645
Renata Limited	4441	864562	905	6537645
Renata Limited	5551	434562	905	3437645
Renata Limited	6661	494562	905	9937645
Renata Limited	7771	784562	905	1937645

6 rows selected.

**10) Find book names and students id in descending order whom take the books and also show their penalty if they have.**

```
select enrolled_book "Book Name",assigned_id as id,penalty
from taken_book
order by 2 desc;
```

```
SQL> select enrolled_book "Book Name",assigned_id as id,penalty
2  from taken_book
3  order by 2 desc;
```

Book Name

ID	PENALTY
Samson Wrights Applied Physiology	
1111017	60

Samson Wrights Applied Physiology	
1111016	0

Perspectives in Cardiothoracic Surgery (Volume V)	
1111015	200

Book Name

ID	PENALTY
CC Chatterjee Human Physiology	
1111012	100

After the Cut	
1111011	0

After the Cut	
1111010	50

Book Name

ID	PENALTY
The Real Beauty Bible	
1111008	200

The Mind Eye (Hardcover)	
1111007	200

Hallucinations	
1111004	0

**11) Fetch just 5 rows of book writer name and available book of the writer and course name.**

```
select writer_name name,available_book book,course_name
from courses join library
on(course_id=dept_lib_code)
fetch first 5 rows only;
```



```
SQL> select writer_name name,available_book book,course_name  
2  from courses join library  
3  on(course_id=dept_lib_code)  
4  fetch first 5 rows only;
```

NAME

-----  
BOOK COURSE\_NAME  
-----

Ythkui Aky  
6 Anatomy

Yustud Akauī  
7 Anatomy

Yustud Akauī  
7 Anatomy

NAME

-----  
BOOK COURSE\_NAME  
-----

Abul Kamal Asad  
4 Anatomy

Asaduzzamn  
3 Anatomy

**12) find 5th to 9th student id whom take book and it's issue date and last date.**

```
select assigned_id,issue_date,last_date  
from taken_book  
offset 4 rows fetch next 5 rows only;
```

```
SQL> select assigned_id,issue_date,last_date
  2  from taken_book
  3  offset 4 rows fetch next 5 rows only;
```

ASSIGNED_ID	ISSUE_DATE	LAST_DATE
1111008	4/6/2017	29/6/2017
1111010	18/6/2017	29/6/2017
1111011	18/4/2017	29/5/2017
1111012	18/4/2017	29/5/2017
1111015	1/4/2017	29/5/2017

**13) show n no company name and their total staff. (N is depend on user)**

set verify off

```
SQL> select company_name,pharmacy_staff as staff
```

```
  2  from pharmaceutical
```

```
  3  where company_no=&company_no;
```

Enter value for company\_no: 902

```
SQL> set verify off
SQL>
SQL> select company_name,pharmacy_staff as staff
  2  from pharmaceutical
  3  where company_no=&company_no;
Enter value for company_no: 902

COMPANY_NAME          STAFF
-----
Incpta Pharmaceutical    8795
Incpta Pharmaceutical    9804
Incpta Pharmaceutical    7984
Incpta Pharmaceutical    9784
Incpta Pharmaceutical    8976
Incpta Pharmaceutical    8675

6 rows selected.
```

**14) How many drugs of medicine are available in Square Pharmaceuticals Limited company.**

```
select total_drugs,company_name
2 from pharmaceutical join courses
3 on(drugs_code=course_id)
4 where company_name='Squar Pharmaceutical';
```

```
SQL> select total_drugs,company_name
2 from pharmaceutical join courses
3 on(drugs_code=course_id)
4 where company_name='Squar Pharmaceutical';

TOTAL_DRUGS  COMPANY_NAME
-----
275990 Squar Pharmaceutical
378949 Squar Pharmaceutical
564738 Squar Pharmaceutical
342563 Squar Pharmaceutical
234352 Squar Pharmaceutical
125342 Squar Pharmaceutical

6 rows selected.
```

**15) Find the names(Capital Letter) and id's of those students who are on duty with the 604 no patient.**

```
select upper(student_name),student_id
2 from duty join students
3 on(emp_id=student_id)
4 join patient
5 on(cabin_no=room_no)
6 where patient_id=604;
```

```
SQL> select upper(student_name),student_id
2  from duty join students
3  on(emp_id=student_id)
4  join patient
5  on(cabin_no=room_no)
6  where patient_id=604;
```

UPPER(STUDENT_NAME)	STUDENT_ID
ALLISON SUE	1111008
EMILY ANN	1111024

```
SQL>
```

**16) convert schedule from classes table.**

```
select schedule, to_char(schedule,'dd-mm-rrrr'),
2 to_char(schedule,'dd-mm-rrrr hh:mi:ssAM')
3 from classes;
```

```
SQL> select schedule, to_char(schedule,'dd-mm-rrrr'),  
2 to_char(schedule,'dd-mm-rrrr hh:mi:ssAM')  
3 from classes;
```

SCHEDULE	TO_CHAR(SC	TO_CHAR(SCHEDULE, 'DD-
04-JUL-17	04-07-1017	04-07-1017 12:00:00AM
05-JUL-17	05-07-2017	05-07-2017 12:00:00AM
06-JUL-17	06-07-2017	06-07-2017 12:00:00AM
10-JUL-17	10-07-2017	10-07-2017 12:00:00AM
11-JUL-17	11-07-2017	11-07-2017 12:00:00AM
12-JUL-17	12-07-2017	12-07-2017 12:00:00AM
13-JUL-17	13-07-2017	13-07-2017 12:00:00AM
14-JUL-17	14-07-2017	14-07-2017 12:00:00AM
15-JUL-17	15-07-2017	15-07-2017 12:00:00AM
16-JUL-17	16-07-2017	16-07-2017 12:00:00AM
01-JUL-17	01-07-2017	01-07-2017 12:00:00AM

SCHEDULE	TO_CHAR(SC	TO_CHAR(SCHEDULE, 'DD-
03-JUL-17	03-07-2017	03-07-2017 12:00:00AM
08-JUL-17	08-07-2017	08-07-2017 12:00:00AM
09-JUL-17	09-07-2017	09-07-2017 12:00:00AM
18-JUL-17	18-07-2017	18-07-2017 12:00:00AM
19-JUL-17	19-07-2017	19-07-2017 12:00:00AM
23-JUL-17	23-07-2017	23-07-2017 12:00:00AM
25-JUL-17	25-07-2017	25-07-2017 12:00:00AM
28-JUL-17	28-07-2017	28-07-2017 12:00:00AM

19 rows selected.

### 17) convert postal code in formal way.

```
select postal_code, to_char(postal_code,'9,999')  
2 from locations;
```

```
SQL> select postal_code, to_char(postal_code,'9,999')
2  from locations;

POSTAL_CODE TO_CHA
-----
3500 3,500
4500 4,500
2300 2,300
2200 2,200
2100 2,100
3700 3,700
3900 3,900
2900 2,900
1200 1,200
1100 1,100
2800 2,800

POSTAL_CODE TO_CHA
-----
1300 1,300
2400 2,400
2600 2,600
4800 4,800
1900 1,900
2500 2,500

17 rows selected.
```

**18) Show course(dept) name, company no and their total staff salary.If the company is squar pharmaceutical then modify salary like total\_salary-1000000 and if company is Incpta Pharmaceutical then modify salary as total\_salary-50000 and if company is Bexim Pharmaceutical then modify salary as total\_salary-70000 then rest of the company's dept salary remain same.**

```
SELECT course_name,company_no, total_salary,
2  DECODE(company_name, 'Squar Pharmaceutical', total_salary-1000000,
3  'Incpta Pharmaceutical', total_salary-50000,
4  'Bexim Pharmaceutical', total_salary-70000,
5  total_salary)REVISED_SALARY
```



6 from courses join pharmaceutical

7 on(course\_id=drugs\_code);

```
SQL> SELECT course_name,company_no, total_salary,
2  DECODE(company_name, 'Squar Pharmaceutical', total_salary-1000000,
3  'Incpta Pharmaceutical', total_salary-50000,
4  'Bexim Pharmaceutical', total_salary-70000,
5  total_salary)REVISED_SALARY
6  from courses join pharmaceutical
7  on(course_id=drugs_code);
```

COURSE_NAME	COMPANY_NO	TOTAL_SALARY	REVISED_SALARY
Anatomy	904	1875327	1875327
Anatomy	901	1706875	706875
Anatomy	906	7435629	7435629
Anatomy	902	1233443	1183443
Anatomy	903	1345632	1275632
Anatomy	905	1237645	1237645
Physiology	901	1567342	567342
Physiology	905	9837645	9837645
Physiology	906	2535629	2535629
Physiology	903	1785434	1715434
Physiology	902	1345267	1295267

COURSE_NAME	COMPANY_NO	TOTAL_SALARY	REVISED_SALARY
Physiology	904	1988374	1988374
Cardiac Surgery	901	1435637	435637
Cardiac Surgery	905	6537645	6537645
Cardiac Surgery	903	1876453	1806453
Cardiac Surgery	906	4355629	4355629
Cardiac Surgery	904	1678374	1678374
Cardiac Surgery	902	1654324	1604324
Medicine	901	1243567	243567
Medicine	904	9876543	9876543
Medicine	903	1456372	1386372
Medicine	902	1787453	1737453

COURSE_NAME	COMPANY_NO	TOTAL_SALARY	REVISED_SALARY
Medicine	906	4357429	4357429
Medicine	905	3437645	3437645
Neurology	905	9937645	9937645
Neurology	904	1897645	1897645
Neurology	903	1764538	1694538
Neurology	902	1786543	1736543
Neurology	901	12435673	11435673

**19) Find total number of students using aggregation function.**

```
select count(student_id)
2 from students;
```

```
SQL> select count(student_id)
      2 from students;

COUNT(STUDENT_ID)
-----
20
```

**20) Find doctor name whose department code is 4441.**

```
select distinct (doctor_id),doctor_name,department_id
2 from departments join doctors
3 on(department_id=dept_id)
4 where department_id = 4441;
```

```
SQL> select distinct (doctor_id),doctor_name,department_id
      2 from departments join doctors
      3 on(department_id=dept_id)
      4 where department_id = 4441;

DOCTOR_ID DOCTOR_NAME DEPARTMENT_ID
-----
104 Dr.Nahid Yaemin 4441
108 Dr.Shimanto Al Ahsan 4441
105 Dr.Pourobi Mollik 4441
112 Dr.Mousumi Afroj 4441
```



**21) Find min salary,sum of salary and total number of doctors.**

```
select sum(salary),count(doctor_id),min(salary)
from doctors
group by dept_id;
```

```
SQL> select sum(salary),count(doctor_id),min(salary)
2  from doctors
3  group by dept_id
4  ;
```

SUM(SALARY)	COUNT(DOCTOR_ID)	MIN(SALARY)
506000	2	106000
706000	3	103000
585000	3	60000
374000	4	80000
1212000	4	105000
265000	3	60000

6 rows selected.

**22) Find average salary of all doctors and show the result \$1,23,000BDT format.**

```
select avg(salary),to_char(avg(salary),'$9,99,999') BDT
from doctors;
```

```
SQL> select avg(salary),to_char(avg(salary),'$9,99,999') BDT
2  from doctors;
```

AVG(SALARY)	BDT
192000	\$1,92,000

**23) Find email,phone number,visiting hour of doctor whose last part of educational qualification is Phil and salary is greater than 60000 and also department is anatomy.(using sub query)**

```
select email,phone_number,visiting_hour
from doctors
where dept_id =3331
and salary in(select salary
from doctors
where salary>60000
and edicational_qualification like '%Phil');
```

```
SQL> select email,phone_number,visiting_hour
2  from doctors
3  where dept_id =3331
4  and salary in(select salary
5  from doctors
6  where salary>60000
7  and edicational_qualification like '%Phil');
```

EMAIL	PHONE_NUMBER	VISITING_H
konika.bd@gmail.com	1964537765	6Hour
dilruba.bd@gmail.com	1854378945	6Hour

**24) Find student name,id and her department whose CGPA is more than others.**

```
select student_name,student_id,course_name
2  from students join results
3  on(student_id=id)
4  join courses
5  on(cours_code=course_id)
6  where cgpa=(select max(cgpa)
```

7 from results);

```
SQL> select student_name,student_id,course_name
  2  from students join results
  3  on(student_id=id)
  4  join courses
  5  on(cours_code=course_id)
  6  where cgpa=(select max(cgpa)
  7  from results);
```

STUDENT_NAME	STUDENT_ID	COURSE_NAME
Bianca Magali	1111012	Cardiac Surgery

```
SQL> _
```

**25) Create view where we see the details address of those doctors and students whose address actually in the same location.**

create view address\_view\_1

2 as

3 select region\_name,d\_id "Doctor Id",st\_id "student id"

4 from regions join locations

5 on(region\_id=postal\_code);

```
SQL> create view address_view_1
  2  as
  3  select region_name,d_id "Doctor Id",st_id "student id"
  4  from regions join locations
  5  on(region_id=postal_code);
```

View created.

```
SQL> desc address_view_1;
```

Name	Null?	Type
REGION_NAME		VARCHAR2(30)
Doctor Id		NUMBER
student id		NUMBER

```
SQL> select * from address_view_1;
```

REGION_NAME	Doctor Id	student id
Europe	111	1111020
Middle East and Africa	110	1111017
Europe	113	1111023
Americas	113	1111023
Middle East and Africa	118	1111037
Americas	105	1111008
Middle East and Africa	104	1111007
Asia	103	1111004
Americas	114	1111024
Middle East and Africa	119	1111038
Europe	115	1111030

REGION_NAME	Doctor Id	student id
Americas	112	1111022
Asia	109	1111015
Europe	101	1111001
Americas	107	1111011
Middle East and Africa	108	1111012
Americas	102	1111002
Middle East and Africa	116	1111033

18 rows selected.

**26) Generate a view named class\_time\_view consisting of professor name with his id,class time.**

```
create view class_time_view
2 as
3 select prof_id,doctor_name,time "Class time"
4 from classes join doctors
5 on(prof_id=doctor_id);
```

```
SQL> desc class_time_view;
```

Name	Null?	Type
PROF_ID		NUMBER
DOCTOR_NAME		VARCHAR2(30)
Class time		VARCHAR2(10)

```
SQL> select * from class_time_view;
```

PROF_ID	DOCTOR_NAME	Class time
101	Dr.Sengupta kiswara	7.30
102	Dr.Shakil Shams	7.30
103	Dr.Dilruba Begum	7.30
104	Dr.Nahid Yaemin	7.00
105	Dr.Pourobi Mollik	8.00
107	Dr.Odhir Kumar	8.00
108	Dr.Shimanto Al Ahsan	9.30
109	Dr.Tahmina Akter	3.30
110	Dr.Urmy Saha	11.00
110	Dr.Urmy Saha	5.40
111	Dr.Rashada Akter	11.00

PROF_ID	DOCTOR_NAME	Class time
112	Dr.Mousumi Afroj	2.30
113	Dr.Sanjida Akter Suma	12.30
114	Dr.Tabassum Nehar	2.00
115	Dr.Kazi Gias Uddin	3.00
116	Dr.Nazma Haque	5.40
117	Dr.Afrina	2.40
118	Dr.Riyaj Mahmud	3.00
119	Dr.Imrul Saha	7.00

```
19 rows selected.
```

