

# Academic ERP

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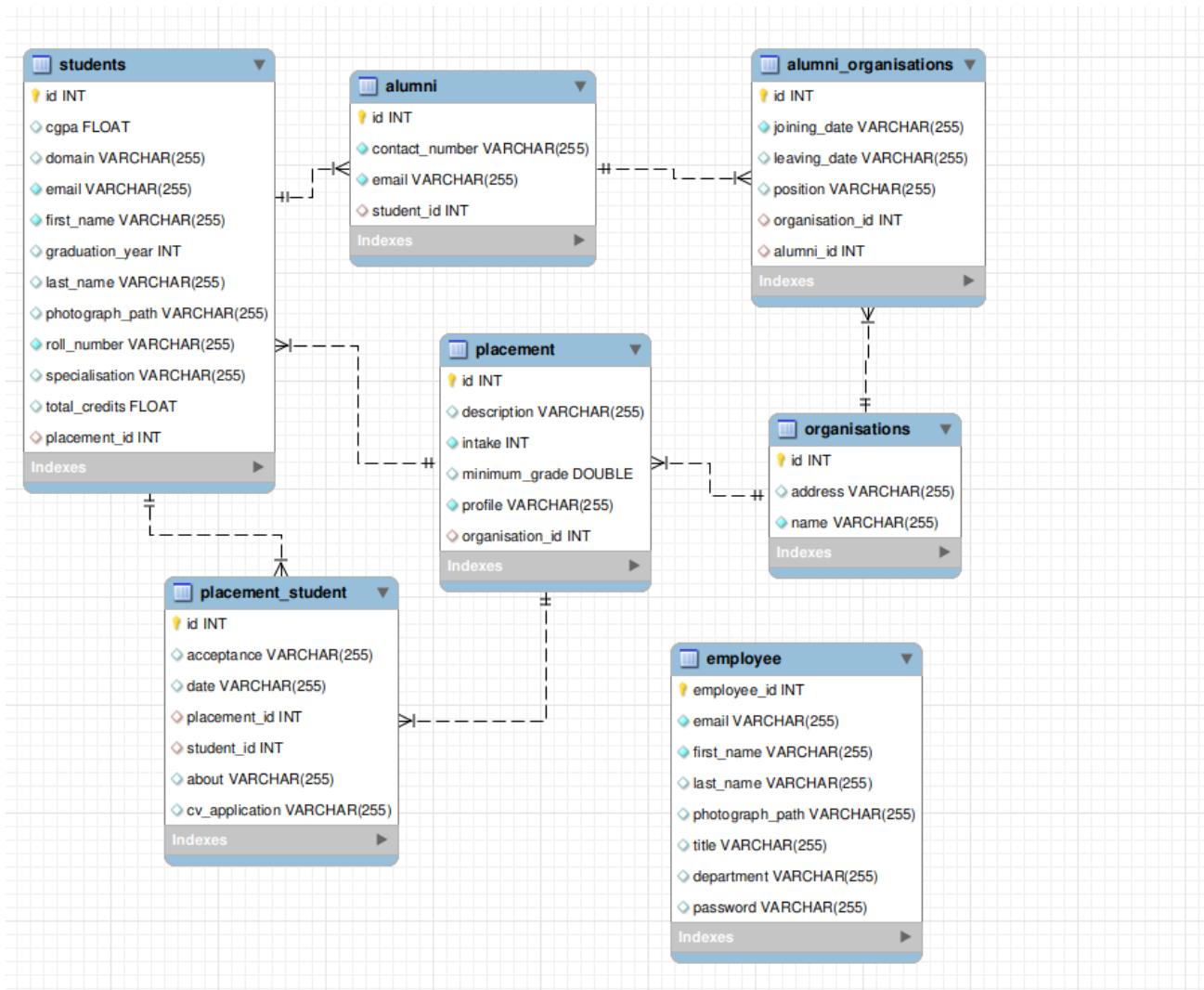
### ROLL NO.: MT2023192

#### Module 8.7

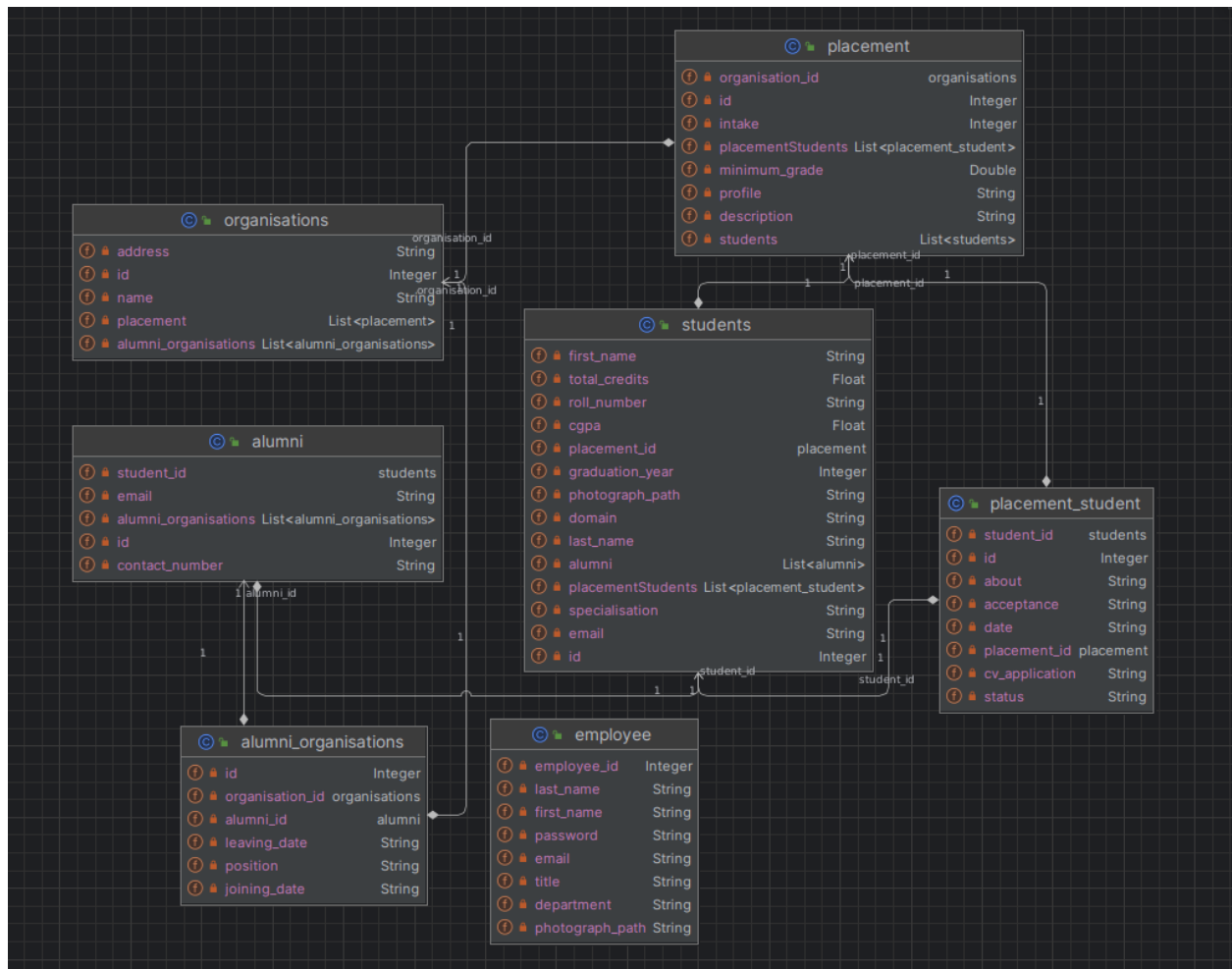
#### Placement History

Allow the employee of outreach department to login and view the history of all placed/unplaced students. Give an interface to filter the details according to organisation, year, domain etc. On selection of a certain organisation show all placement history along with Alumni presently working there.

- ER Diagram



- OR Mapping Diagram



## SQL Scripts

### 1. Create Table Scripts:

- Student:

```
create table students
(
    id          int auto_increment primary key,
    cgpa        float null,
    domain       varchar(255) null,
    email        varchar(255) not null,
    first_name   varchar(255) not null,
    graduation_year int null,
    last_name    varchar(255) null,
    photograph_path varchar(255) null,
    roll_number  varchar(255) not null,
    specialisation varchar(255) null,
    total_credits float null,
    placement_id int null
);
```

- Placement:

```
create table placement
(
    id          int auto_increment primary key,
    description  varchar(255) null,
    ntake       int not null,
    minimum_grade double null,
    profile      varchar(255) not null,
    organisation int null,
    organisation_id int null
);
```

- Placement Students:

```
create table placement_student
(
    id          int auto_increment primary key,
    acceptance  varchar(255) null,
    date        varchar(255) null,
    placement_id int null,
    student_id  int null
);
```

- Organisations:  

```
create table organisations
(
    id      int auto_increment primary key,
    address varchar(255) null,
    name    varchar(255) not null
);
```
- Alumni organisations:  

```
create table alumni_organisations
(
    id            int auto_increment primary key,
    joining_date  varchar(255) not null,
    leaving_date  varchar(255) null,
    position      varchar(255) null,
    organisation_id int null,
    alumni_id     int null
);
```
- Alumni:  

```
create table alumni
(
    id            int auto_increment primary key,
    contact_number varchar(255) not null,
    email         varchar(255) not null,
    student_id    int null
);
```
- Employee:  

```
create table employee
(
    employee_id int auto_increment primary key,
    email       varchar(255) not null,
    first_name  varchar(255) not null,
    last_name   varchar(255) null,
    photograph_path varchar(255) null,
    title       varchar(255) null,
    department  varchar(255) null,
    password    varchar(255) null
);
```

## 2. Insert Table Scripts:

- Students:

```
INSERT INTO `students` VALUES (2,3.8,'MTech  
CSE','pranjal@gmail.com','Pranjal',2024,'Gawande',NULL,'MT2023001','NC',16,2  
,(3,3.7,'MTech  
ECE','nikhil@gmail.com','Nikhil',2024,'Gupta',NULL,'MT2023002','None',14,4),(4,  
3.8,'MTech  
CSE','chittranjan@gmail.com','Chittranjal',2024,'Chandwani',NULL,'MT2023003','  
AI/ML',16,3),(5,3.8,'MTech  
CSE','aryan@gmail.com','Aryan',2024,'Yadav',NULL,'MT2022004','AI/ML',14,1),(6  
,3.7,'MTech ECE','hari@gmail.com','C.  
Hari',2024,'Prasad',NULL,'MT2023005','None',16,3),(9,3.5,'MTech  
ECE','venketesh@gmail.com','Venkatesh',2017,'Boppana',NULL,'MT2023006','V  
LSI',16,4),(10,3.7,'MTech  
CSE','jacob@gmail.com','Jacob',2022,'Mathew',NULL,'MT2023007','AI/ML',16,1),  
(11,3.6,'MTech  
CSE','gautam@gmail.com','Gautam',2022,'Rizwani',NULL,'MT2023008','AI/ML',1  
6,3),(12,3.7,'MTech  
CSE','juhi@gmail.com','Juhi',2020,'Sohane',NULL,'MT2023009','TSCD',16,1),(13,  
3.6,'MTech  
CSE','gaurang@gmail.com','Gaurang',2020,'Agarwal',NULL,'MT2023011','TSCD',  
16,5);
```

- Placement:

```
INSERT INTO `placement` VALUES  
(1,'Software Development Engineer - Level 1. Entry-level position for software  
developers focusing on learning and implementing basic programming skills and  
algorithms.',20,2.8,'SDE - 1',NULL,2),(2,'Software Development Engineer - Level  
2. Mid-level position for experienced developers responsible for designing and  
developing software solutions, often involving complex systems and  
architectures.',15,3,'SDE - 2',NULL,1),(3,'Data Scientist role involves analyzing  
complex data sets, developing algorithms, and creating predictive models to  
extract meaningful insights and solve business problems.',10,3.2,'Data  
Scientist',NULL,3),(4,'Data Engineer role involves designing, building, and  
managing data pipelines and infrastructure for efficient data processing and  
storage, ensuring data availability and reliability.',12,2.8,'Data  
Engineer',NULL,4),(5,'Software Development Engineer - Level 1. Entry-level  
position for software developers focusing on learning and implementing basic  
programming skills and algorithms.',15,2.8,'SDE-1',NULL,5);
```

- Placement Students:  
INSERT INTO `placement\_student` VALUES  
(1,'Accepted','28-11-2023',2,2),(2,'Pending','01-12-2023',3,4),(3,'Rejected','05-12-2023',4,3),(4,'Accepted','10-12-2023',1,5),(5,'Accepted','15-12-2023',3,6),(6,'Accepted','08-02-2017',4,9),(7,'Accepted','17-03-2022',1,10),(8,'Accepted','20-02-2022',3,11),(9,'Accepted','14-04-2020',1,12),(10,'Accepted','25-04-2020',3,13);
- Organisations:  
INSERT INTO `organisations` VALUES (1,'HSR, Bangalore','Google'),(2,'Koramangla, Bangalore','Microsoft'),(3,'WhiteField, Bangalore','Apple'),(4,'Electronics City, Bangalore','Infosys'),(5,'Noida','Morgan Stanley');
- Alumni Organisations:  
INSERT INTO `alumni\_organisations` VALUES  
(1,'14-03-2022',NULL,'SDE-2',3,3),(2,'09-05-2020',NULL,'SDE-1',2,4),(3,'15-03-2017',NULL,'SDE-2',4,1),(4,'14-03-2022',NULL,'SDE-1',1,2),(5,'08-05-2020',NULL,'Data Scientist',3,5);
- Alumni:  
INSERT INTO `alumni` VALUES  
(1,'1247290183','[venketesh@gmail.com](mailto:venketesh@gmail.com)',9),(2,'9430997705','jacob@gmail.com',10),(3,'9543938433','gautam@gmail.com',11),(4,'9345758435','juhi@gmail.com',12),(5,'7095487685','gaurang@gmail.com',13);
- Employee:  
INSERT INTO `employee` VALUES (1,'murali@iiitb.ac.in','Muralidhara','VN',NULL,'Mr.','Outreach','abc123'),(2,'[thangaraju@iiitb.ac.in](mailto:thangaraju@iiitb.ac.in)','B.','Thangaraju',NULL,'Mr.','Outreach','abc123'),(3,'amrita@iiitb.ac.in','Amrita','Mishra',NULL,'Ms.','IT','abc123'),(4,'neelam@iiitb.ac.in','Neelam','Sinha',NULL,'Ms.','Admission','abc123'),(5,'rc@iiitb.ac.in','Chandrashekar','R',NULL,'Ms.','Library','abc123'),(6,'priyanka@iiitb.ac.in','Priyanka','Das',NULL,'Ms.','IT','abc123');

### 3. Alter Table Scripts:

- alter table alumni  
add constraint FKiy6rn5rcpdfdo3q4b21turd7l  
foreign key (student\_id) references students (id);
- alter table alumni  
add constraint UK\_rxotkc3t39yox4sjngrvvvxb  
unique (contact\_number);

- alter table alumni  
add constraint UK\_s3vlwkycxquaoujm03lrppqmc  
unique (email);
- alter table placement\_student  
add constraint FKgreh4yfqlagf693toap3pksaw  
foreign key (student\_id) references students (id);
- alter table placement\_student  
add constraint FK4giyjf1a3a04nxkowd3a0jx3v  
foreign key (placement\_id) references placement (id);
- alter table students  
add constraint UK\_e2rndfrsx22acpq2ty1caeuyw  
unique (email);
- alter table students  
add constraint UK\_kmd86jf46110c60b412jt2bg  
unique (roll\_number);
- alter table students  
add constraint FKmaj9dkvdvm6kfo51njeiadqoi  
foreign key (placement\_id) references placement (id);
- alter table placement  
add constraint FK6lw28uumqht1v3vu97m0sii5w  
foreign key (organisation\_id) references organisations (id);
- alter table placement  
add constraint FKam636kuptcefqw1py47hae0m2  
foreign key (organisation) references organisations (id);
- alter table alumni\_organisations  
add constraint FKmd752bvoai906eru0haq08piq  
foreign key (organisation\_id) references organisations (id);
- alter table alumni\_organisations  
add constraint FKilyn5sstvmwyxptcbeytns5  
foreign key (alumni\_id) references alumni (id);
- alter table employee  
add constraint UK\_fopic1oh5oln2khj8eat6ino0  
unique (email);