MARKS

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UNIVERSITI MALAYSIA PAHANG

FK

FACULTY OF COMPUTING
UNIVERSITI MALAYSIA PAHANG
BCI2023 DATABASE SYSTEMS
SEMESTER 1 2022/2023

Group No: G03

Lab Section: 02G

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Project Title: ONLINE JOB RECRUITMENT SYSTEM

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1.Project Background

In this day and age, the necessity to execute things is becoming increasingly important. Technology is extremely important in daily life. As a result, several job fields have seen significant modifications, with the recruiting process being one that has seen a major change in its systematic approaches. Because recruiting is a year-round activity involving thousands of candidates, it was determined that the entire process should be automated. Presently, the system requires a manual search of files, folders, and binders. Eventually, the job seeker must locate the company that is offering the required profile. Then, check the post's eligibility or conduct a search based on eligibility by visiting various companies that he is familiar with. In this manual process, it is inevitable that the seeker will not find an offer that exactly matches his or her profile. Because of this lack of information, the individual lost an opportunity, and the company lost a potential applicant for the job posting. As a result, there is currently a clear need for a computerized online system through which both the applicant and the company can interact easily.

This project work is concerned with the design and implementation of online job recruitment system. We considered a automate online job recruitment system ,since recruiting employees manually is a time consuming, thus wasting of the company's money or loosely speaking not a wise strategy in terms of economy. This online job recruiting syste m is a platform that processes all of the organization's employment operations. It is a computerized system that includes many components to help with the procedures of locating, attracting, assessing, interviewing, and hiring a new employee. Through online recruitment, employers can reach a larger number of potential employees compared to the manual system. Finding the ideal applicant nowadays is different than it was in the past. Whether you're just starting out in recruitment or have years of experience, you'll know that one of the most effective tools you can use is the internet. Nowadays, HR departments are becoming digitalized, particularly for recruiting, which corresponds to how people search for employment. By using online job recruitment system plays a vital role in simplifying the recruitment process.

This online job recruitment system ERD is basically consist of 17 entities made of company, job_position,job_category, job, job_platform, application_detail, applicant_document, resume, applicant, applicant_credential, selection_process, branch, applicant_evaluation, interview, application_test, interview_decision and test result. All the entities are working together to perform data storing that integrated with each other.EERD of system consist of 23 entities with addition of two main subtype from job_department and

test_category. SQL is the main tool applied in this system, we apply various technique with the aid of sql software such as creating table, inserting value , commanding query and etc.

Objectives:
- Capture data into a secure database which allow applicant data to be easily accessed by employee and admin anytime
- Determines the potentials of each employee and recommend to company whose performance could meet the organizational goals.
- Offer immediate cost savings on recruiting as well as significant long-term savings over a longer period of time.
- develop a creative, cost-effective, and efficient recruitment system

Scope:

The online job recruitment system is built to provide a platform for a company to recruit new members into their company. At the same time, people can easily access to a website and apply for a job especially during this covid-19 time where most of the people are losing their job.

The user's scope:
1. Job
   - Display all the job offers by the company
   - Display the vacancies of the job
   - Display the job platform
2. Application_Detail
   - Input the date application
   - Input the education level
   - Input the experience
   - Input the submission_frequency
3. Selection_Process
   - Display the appointment date

- Display the candidate category
- Display the job recruiter

4. Application_Test
   - Display start time
   - Display end time
   - Display test category
   - Display score
   - Display application id

5. Interview Decision
   - Display hired_decision
   - Display pass_status
   - Display selection id
   - Display result id

2. Investigate the manual process that occurred for your title/case study. Analyze TWO (2) database systems that significantly relevant to your title. You don't have to compare your prospect @ propose database title (which still not exist yet). These analyses should include the features to support their ERD/EERD. As such the processes or entities, attributes, primary keys and other features. If you put the diagrams from reference, please cited in text. Otherwise, you can draw the diagrams according to your group discussion finding. Put the references with the correct format, see item 9. Show the comparison of these features in Table 2.

Manual Process

Database System 1

employee
PK	adminID
	name
	username
	password
	contact
	email

encodes

job category
PK	UniqueID
FK	admin ID
	category name

company
PK	companyID
	name
	username
	password
	account status
	address
	contact
	email
	website

has

encodes

job information
PK	jobID
	title
	type
	salary
	position date
	application date
	description
FK	category id
	location id
FK	company id
	no of vacancy
	status

has

applicant
PK	applicantID
	name
	gender
	profile image
	username
	password
	account status
	contact details
	email address
	professional summary
	highest education attainment

job location
PK	locationID
FK	admin ID
	location name

has

has

has

has

application details
PK	application ID
FK	applicant ID
	application status
	job id

application credential
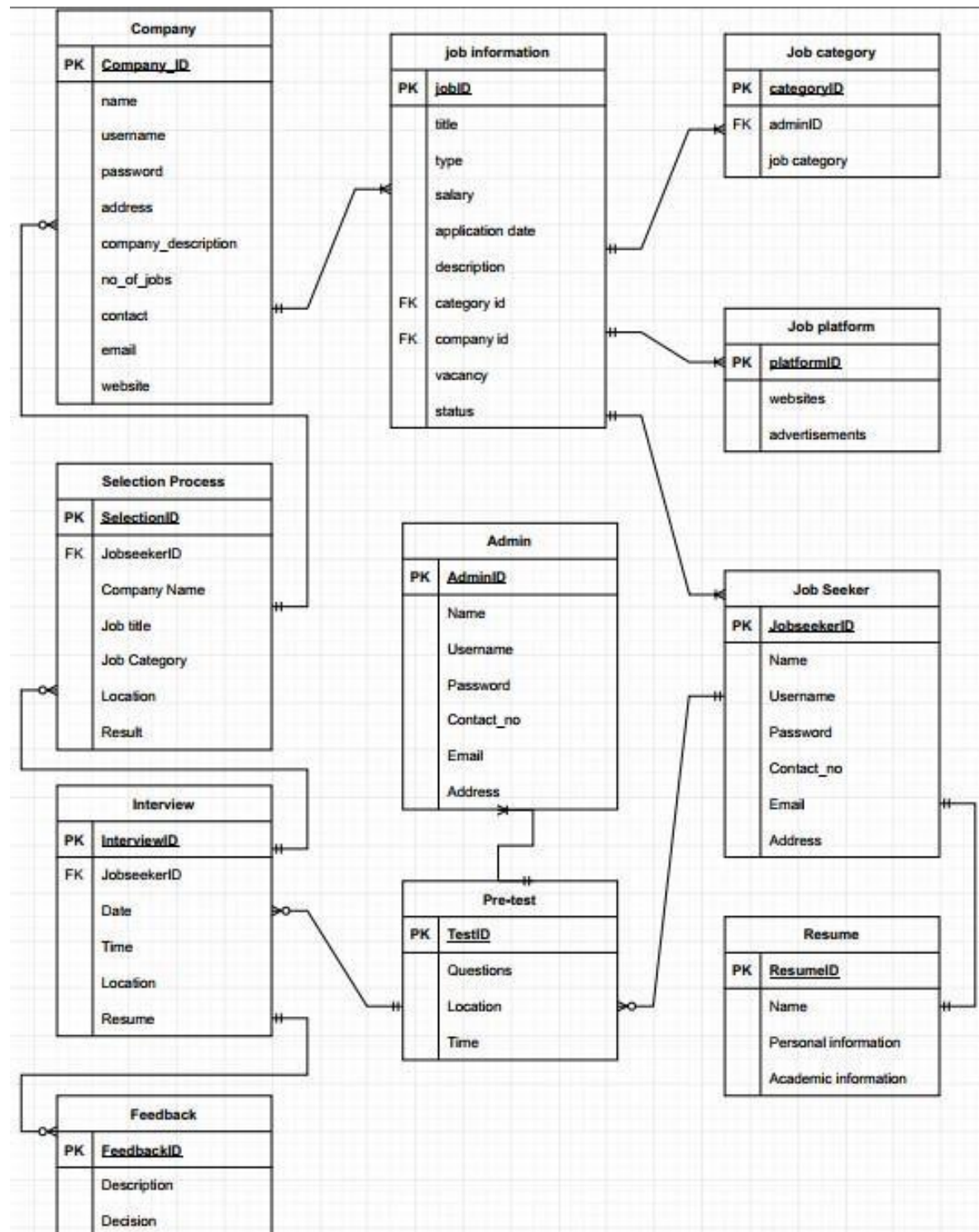| PK	credentialID
	name
	applicantID
	file upload

	Database System 1
Process/Entities	1. employee 2. applicant 3. job category 4. company 5. applicant credential 6. application details 7. job location 8. job information
Attributes	1. employee • admin ID (PK) • name • username • password • contact • email 2. applicant • applicant ID (PK) • Name • Gender • Profile image • Username • Password • Account status • Contact details • Email address • Professional summary • Highest education attainment 3. company • Company ID (PK) • Name • Username • Password • Account status • Address • Contact

| | • Email
• Website |
| | **4.job location**

• Location ID (PK)
• Admin ID (FK)
• Location name

5.application details

• Application ID (PK)
• Applicant ID (FK)
• Application status
    • Job id

6.job information

• Job ID (PK)
    • Title
    • Type
• Salary
• Position date
• Application date
• Description
• Category id (FK)
• Location id
• Company id (FK)
• No of vacancy
• Status

7.applicationcredential

• Credential ID (PK)
    • Name
• Applicant ID
• File upload

8.job category |

	- Category ID (PK) - Admin ID (FK) - Category name
Primary keys	**Primary keys** 1 Admin id 2 Location id 3 Job id 4 Company id 5 Applicant id 6 Credential id
Other features	**Foreign keys** 1. Admin id 2. Category id 3. Company id 4. Applicant id
Diagram	**ERD**
Reference	Inettutor.com. (2020, July 10). *Job portal system er diagram*. Retrieved December 14, 2022, from https://www.inettutor.com/diagrams/job - portal-system-er-diagram/

Database 2

Company
PK	Company_ID
	name
	username
	password
	address
	company_description
	no_of_jobs
	contact
	email
	website

job information
PK	jobID
	title
	type
	salary
	application date
	description
FK	category id
FK	company id
	vacancy
	status

Job category
PK	categoryID
FK	adminID
	job category

Job platform
PK	platformID
	websites
	advertisements

Selection Process
PK	SelectionID
FK	JobseekerID
	Company Name
	Job title
	Job Category
	Location
	Result

Admin
PK	AdminID
	Name
	Username
	Password
	Contact_no
	Email
	Address

Job Seeker
PK	JobseekerID
	Name
	Username
	Password
	Contact_no
	Email
	Address

Interview
PK	InterviewID
FK	JobseekerID
	Date
	Time
	Location
	Resume

Pre-test
PK	TestID
	Questions
	Location
	Time

Resume
PK	ResumeID
	Name
	Personal information
	Academic information

Feedback
PK	FeedbackID
	Description
	Decision

	Database System 2
Process/Entities	1. Company 2. Job Information 3. Job Category 4. Job Platform 5. Job Seeker 6. Resume 7. Admin 8. Pre-test 9. Interview 10. Feedback 11. Selection Process
Attributes	1. Company • Company_ID • NamE • Username • Password • Contact_no • Email • Address 2. Job Information • JobID • Tittle • Type • Salary • Application date • Description • Category id • Company id • Vacancy • status 3. Job Category • adminID • job category 4. Job platform • websites • advertisements

	5. Job Seeker - JobseekerID - Name - Username - Password - Contact_no - Email - Address 6. Resume - ResumeID - Name - Personal Information - Academic Information 7. Admin - AdminID - Name - Username - Password - Contact_no - Email - Address 8. Pre-test - Questions - Location - Time 9. Interview - jobseekerID - Date - Time - Location - Resume 10. Feedback - Description - Decision

	11. Selection Process • SelectionID • JobseekerID • Company name • Job title • Job category • Location • Result
Primary keys	Primary keys 1. Company_ID 2. JobID 3. CategoryID 4. PlatformID 5. JobseekerID 6. ResumeID 7. AdminID 8. TestID 9. InterviewID 10. FeedbackID 11. SelectionID
Other features	Foreign Keys 1. Category id 2. Company id 3. AdminID 4. JobseekerID 5. JobseekerID
Diagram	**ERD**
Reference	*Popular diagram templates: Many templates covering all diagram types*. Retrieved December 18, 2022, from https://creately.com/diagram-community/popular?error=diagramNotFound&id=honyutm51

3. Business Rules

Business rules for ERD

- A company provides one or more jobs. A job is provided by a company.
- A job offers one or more job positions. A job position is offered by a job.
- A job is divided into one or more job categories. One job category is divided by a job.
- A job can create a job platform for advertisement. A job platform may be created or by more jobs.
- The company may receive application detail. The application detail may be received by the company.
- An applicant document may help to arrange the application details. An application detail is arranged by one applicant document.
- An applicant is required to provide at least one detail for application in the resume. A job may receive application detail from applicant in the form of resume.
- An applicant needs to testify credential. Credential of an applicant is required to be testified.
- An application detail may help to assist application evaluation. An application evaluation is assisted by an application detail.
- In selection process, one or more interview is conducted. An interview is conducted by a selection process.
- An application detail may help in selection process through evaluation in the company's branch. The selection process in one or many company's branches can be supported by an application evaluation from an application detail.
- An application detail may assist application test. An application test can be support by an application detail from applicant.
- An interview schedules an application test. An application test can be scheduled by one or more interview.
- Application test release one or more test result to the applicant. A test result is released by an application test.
- A test result decides the interview decision. An Interview decision is decided by the test result.
- A selection process is decided by an interview decision. An interview decision decides the selection process.
- A company plans one or more selection processes based on the interview decision. A selection process is planned by a company.

Business rules for EERD

- A company provides one or more jobs. A job is provided by a company.
- A job offers one or more job positions. A job position is offered by a job.
- A job is divided into one or more job categories. One job category is divided by a job.
- One of the job categories must be come from executive category, management category and operational category.
- A job can create a job platform for advertisement. A job platform may be created or by more jobs.
- The company may receive application detail. The application detail may be received by the company.
- An applicant document may help to arrange the application details. An application detail is arranged by one applicant document.
- An applicant is required to provide at least one detail for application in the resume. A job may receive application detail from applicant in the form of resume.
- An applicant needs to testify credential. Credential of an applicant is required to be testified.
- An application detail may help to assist application evaluation. An application evaluation is assisted by an application detail.
- In selection process, one or more interview is conducted. An interview is conducted by a selection process.
- An application detail may help in selection process through evaluation in the company's branch. The selection process in one or many company's branches can be supported by an application evaluation from an application detail.
- An application detail may assist application test. An application test can be support by an application detail from applicant.
- An interview schedules an application test. An application test can be scheduled by one or more interview.
- An application test might be consisted of one or more tests from communication, behavioural and performance-based test.
- Application test release one or more test result to the applicant. A test result is released by an application test.
- A test result decides the interview decision. An Interview decision is decided by the test result.
- A selection process is decided by an interview decision. An interview decision decides the selection process.
- A company plans one or more selection processes based on the interview decision. A selection process is planned by a company.

4.ERD

EERD

5.
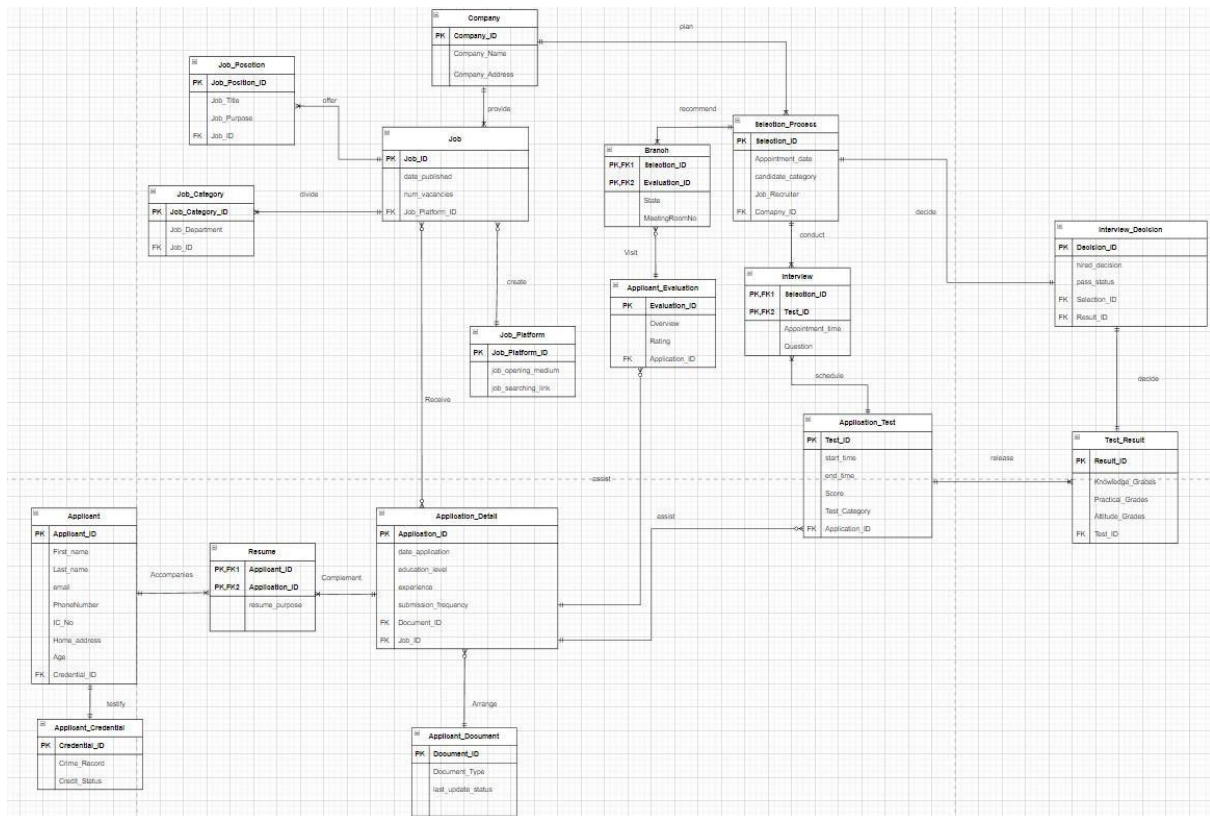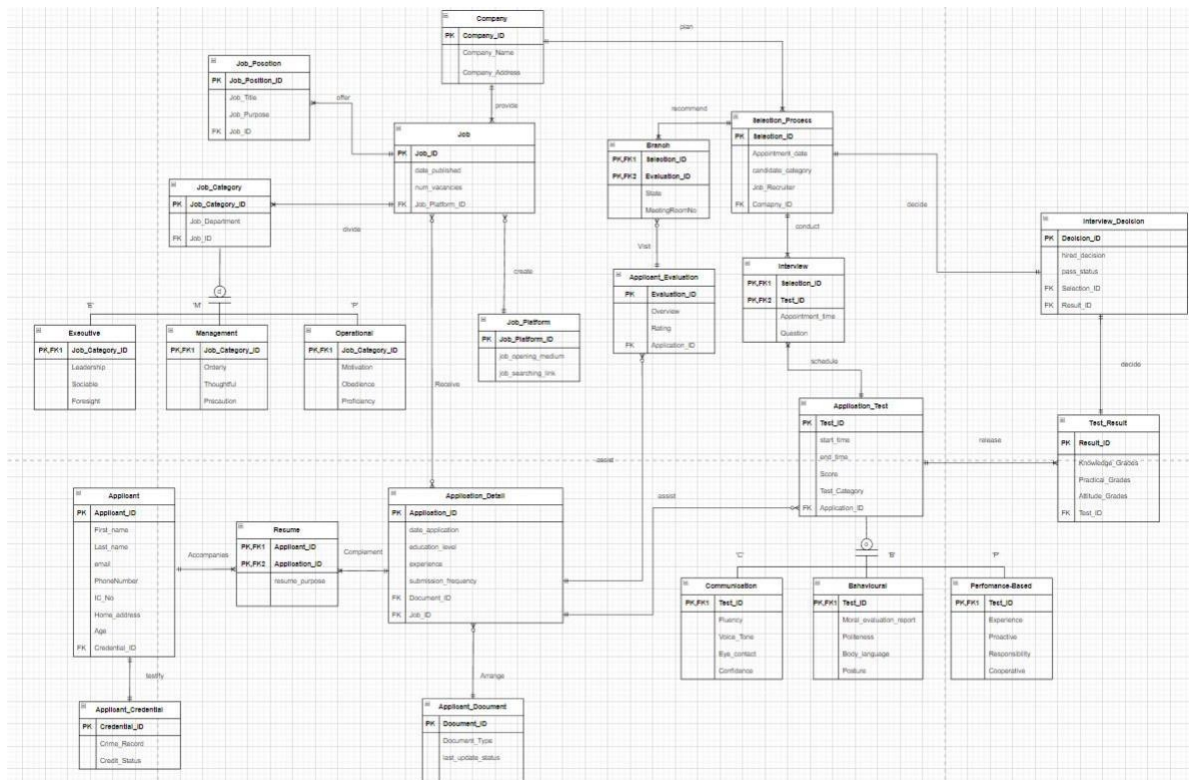
```sql
CREATE DATABASE JOB;

USE JOB;
CREATE TABLE COMPANY(
COMPANY_ID VARCHAR(10) NOT NULL PRIMARYKEY,
COMPANY_NAME VARCHAR(30),
COMPANY_ADDRESS VARCHAR(100)
);




CREATE TABLE JOB
(
JOB_ID VARCHAR(10) NOT NULL PRIMARY KEY,DATE_PUBLISHED
DATE,
NUM_VACANCIES INT, JOB_PLATFORM_ID
VARCHAR(10)
);




CREATE TABLE JOB_POSITION
(
JOB_POSITION_ID VARCHAR(10) NOT NULLPRIMARY
KEY,
JOB_TITLE VARCHAR(100),
JOB_PURPOSE VARCHAR(100),JOB_ID
VARCHAR(10),
CONSTRAINT JOB_POSITION_FK FOREIGNKEY(JOB_ID)
REFERENCES JOB(JOB_ID)
);
```

```sql
CREATE TABLE JOB_CATEGORY
(
JOB_CATEGORY_ID VARCHAR(10) NOT NULLPRIMARY KEY,
JOB_DEPARTMENT VARCHAR(100),JOB_ID
VARCHAR(10),
CONSTRAINT JOB_CATEGORY_FK FOREIGNKEY(JOB_ID)
REFERENCES JOB(JOB_ID)
);


CREATE TABLE JOB_PLATFORM
(
JOB_PLATFORM_ID VARCHAR(10) NOT NULLPRIMARY KEY,
JOB_OPENING_MEDIUM VARCHAR(100),
JOB_SEARCHING_LINK VARCHAR(100)
);


CREATE TABLE APPLICANT_DOCUMENT
(
DOCUMENT_ID VARCHAR(10) NOT NULL PRIMARY KEY,

DOCUMENT_TYPE VARCHAR(10),

LAST_UPDATE_STATUS DATE
);


CREATE TABLE APPLICATION_DETAIL
(
APPLICATION_ID VARCHAR(10) NOT NULL PRIMARY
KEY,
DATE_APPLICATION DATE,
EDUCATION_LEVEL VARCHAR(10),
EXPERIENCE VARCHAR(10),
SUBMISSION_FREQUENCY INT,
DOCUMENT_ID VARCHAR(10), JOB_ID
VARCHAR(10),
```

```
CONSTRAINT APPLICATION_DETAIL_FK1 FOREIGNKEY(JOB_ID)
REFERENCES JOB(JOB_ID), CONSTRAINT
APPLICATION_DETAIL_FK2 FOREIGNKEY(DOCUMENT_ID)
REFERENCES APPLICANT_DOCUMENT(DOCUMENT_ID)
); CREATE TABLE APPLICANT_CREDENTIAL(
CREDENTIAL_ID VARCHAR(10) NOT NULL PRIMARY

KEY, CRIME_RECORD INT,
CREDIT_STATUS VARCHAR(20)

);


CREATE TABLE APPLICANT
(
APPLICANT_ID VARCHAR(10) NOT NULL PRIMARY KEY,
FIRST_NAME VARCHAR(20), LAST_NAME
VARCHAR(20), EMAIL VARCHAR(50),
PHONENUMBER VARCHAR(20), IC_NO
VARCHAR(30), HOME_ADDRESS
VARCHAR(100),AGE INT,
CREDENTIAL_ID VARCHAR(10), CONSTRAINT
APPLICANT_FK FOREIGN KEY(CREDENTIAL_ID)
REFERENCES APPLICANT_CREDENTIAL(CREDENTIAL_ID)
);
```

```sql
CREATE TABLE RESUME
(
APPLICATION_ID VARCHAR(10) NOT NULL,

FOREIGN KEY(APPLICATION_ID) REFERENCES
APPLICATION_DETAIL(APPLICATION_ID), APPLICANT_ID
VARCHAR(10) NOT NULL, FOREIGN KEY(APPLICANT_ID)
REFERENCES APPLICANT(APPLICANT_ID),
PRIMARY KEY(APPLICATION_ID,APPLICANT_ID),RESUME_PURPOSE
VARCHAR(100)
);


CREATE TABLE SELECTION_PROCESS
(
SELECTION_ID VARCHAR(10) NOT NULL PRIMARY KEY,
APPOINTMENT_DATE DATE,
CANDIDATE_CATEGORY VARCHAR(30),
JOB_RECRUITER VARCHAR(10), COMPANY_ID
VARCHAR(10),
CONSTRAINT SELECTION_PROCESS_FK FOREIGNKEY(COMPANY_ID)
REFERENCES COMPANY(COMPANY_ID)
);
CREATE TABLE APPLICANT_EVALUATION
(
EVALUATION_ID VARCHAR(10) NOT NULL PRIMARY KEY,

OVERVIEW VARCHAR(100), RATING
VARCHAR(5), APPLICATION_ID
VARCHAR(10),
CONSTRAINT APPLICANT_EVALUATION_FK FOREIGN
KEY(APPLICATION_ID) REFERENCES
APPLICATION_DETAIL(APPLICATION_ID)
);
```

```sql
CREATE TABLE BRANCH(
SELECTION_ID VARCHAR(10) NOT NULL, FOREIGN
KEY(SELECTION_ID) REFERENCES
SELECTION_PROCESS(SELECTION_ID), EVALUATION_ID
VARCHAR(10) NOT NULL, FOREIGN KEY(EVALUATION_ID)
REFERENCES APPLICANT_EVALUATION(EVALUATION_ID),
PRIMARY KEY(SELECTION_ID,EVALUATION_ID),STATE
VARCHAR(20),
MEETING_ROOM_NO VARCHAR(10)

);
CREATE TABLE APPLICATION_TEST
(
TEST_ID VARCHAR(10) NOT NULL PRIMARY KEY,

START_TIME TIME,
END_TIME TIME,
TEST_CATEGORY VARCHAR(20),SCORE INT,
APPLICATION_ID VARCHAR(10),

CONSTRAINT APPLICATION_TEST_FK FOREIGN
KEY(APPLICATION_ID) REFERENCES
APPLICATION_DETAIL(APPLICATION_ID)
);

CREATE TABLE INTERVIEW
(
SELECTION_ID VARCHAR(10) NOT NULL, FOREIGN
KEY(SELECTION_ID) REFERENCES
SELECTION_PROCESS(SELECTION_ID), TEST_ID
VARCHAR(10) NOT NULL,
FOREIGN KEY(TEST_ID) REFERENCES
APPLICATION_TEST(TEST_ID), PRIMARY
KEY(SELECTION_ID,TEST_ID), APPOINTMENT_TIME
TIME,
QUESTION VARCHAR(100)

);
```

```sql
CREATE TABLE TEST_RESULT

(

RESULT_ID VARCHAR(10) NOT NULL PRIMARY KEY,

KNOWLEDGE_GRADES VARCHAR(10), PRACTICAL_GRADES

VARCHAR(10), ATTITUDE_GRADES VARCHAR(10), OVERALL_GRADES

VARCHAR(10),

TEST_ID VARCHAR(10),

CONSTRAINT TEST_RESULT_FK FOREIGNKEY(TEST_ID)

REFERENCES APPLICATION_TEST(TEST_ID)

);


CREATE TABLE INTERVIEW_DECISION

(

DECISION_ID VARCHAR(10) NOT NULL PRIMARYKEY,

HIRED_DECISION VARCHAR(10),

PASS_STATUS VARCHAR(10),

SELECTION_ID VARCHAR(10), RESULT_ID

VARCHAR(10),

CONSTRAINT INTERVIEW_DECISION_FK1 FOREIGN

KEY(SELECTION_ID) REFERENCES

SELECTION_PROCESS(SELECTION_ID),

CONSTRAINT INTERVIEW_DECISION_FK2 FOREIGNKEY(RESULT_ID)

REFERENCES TEST_RESULT(RESULT_ID)

);
```

6.

INSERT INTO COMPANY

VALUES

('C001','Samsung','37A Jalan Bakawali 52 Taman Jaya,81100 Johor Bahru Johor'),

('C002','Apple','No. 43 Jln Lombong Emas 2 Taman Industri Ringan Mps 70200 Negeri Sembilan'), ('C003','Xiaomi','1 Blok 488D One Stop Centre Jln Burma10350 Penang'),

('C004','Banana','G Wisma Mirama Jln Wisma Putra 50460Wilayah Persekutuan'),

('C005','Pineapple','27 Jln Permatang 2 Taman Desa Jaya81100 Johor'),

('C006','Tesla','7 Batu 2/3 Jalan Taman PerindustrianTampoi Jaya Johor Bahru'),

('C007','Nike','No. 55 Jln Telawi 3 Bangsar Baru KualaLumpur'),

('C008','Puma','22 Jln Tp 5 Taman Perindustrian Sime UepPetaling Jaya'),

('C009','Adidas','C 3A 23 4Th Floor Blok C Megan PhoenixJalan 2/142A Km 10 Jalan Cheras Mal Kuala Lumpur'), ('C010','Huawei','Bangunan Kerjasama Jln Dhoby Johor Bahru');

INSERT INTO JOB
VALUES
('J001','2023-01-01',5,'PL001'),

('J002','2023-01-15',7,'PL002'),

('J003','2023-01-20',3,'PL003'),

('J004','2023-01-25',5,'PL004'),

('J005','2023-02-01',4,'PL005'),

('J006','2023-01-22',6,'PL006'),

('J007','2023-01-08',6,'PL007'),

('J008','2023-01-07',3,'PL008'),

('J009','2023-01-17',1,'PL009'),

('J010','2023-01-23',2,'PL010');

```sql
INSERT INTO JOB_CATEGORY
VALUES
('JC001','Finance','J001'),

('JC002','Marketing','J002'),

('JC003','Customer service','J003'),

('JC004','Business','J004'),

('JC005','Sales','J005'),
('JC006','Human resource','J006'),

('JC007','Finance','J007'),

('JC008','Marketing','J008'),

('JC009','Business','J009'),

('JC010','Finance','J010');



INSERT INTO JOB_PLATFORM
VALUES
('PL001','Facebook','https://www.jobstreet.com.my/en/job- search/department-
jobs/'), ('PL002','Youtube','https://blog.hubspot.com/marketing/ma rketing-job-
descriptions'), ('PL003','Linkedin','https://blog.hubspot.com/service/what- are-
customer-service-jobs'), ('PL004','Facebook','https://www.indeed.com/career-
advice/career-development/business-departments'),
('PL005','Instagram','https://www.pipedrive.com/en/blog/types-of-sales-jobs'),
('PL006','Youtube','https://www.theladders.com/'),
('PL007','Linkedin','https://angel.co/'),
('PL008','Instagram','https://www.internships.com/'),
('PL009','Linkedin','https://www.linkedin.com/feed/'),
('PL010','Facebook','https://www.jobstreet.com.my/en/companies/610504-aeon-
co-m');
```

```sql
INSERT INTO APPLICANT_DOCUMENT
VALUES
('D001','SoftCopy','2023-03-08'),

('D002','HardCopy','2023-02-20'),

('D003','HardCopy','2023-03-08'),

('D004','SoftCopy','2023-03-04'),

('D005','SoftCopy','2023-02-08'),

('D006','SoftCopy','2023-02-20'),

('D007','SoftCopy','2023-01-16'),

('D008','SoftCopy','2023-02-08'),

('D009','SoftCopy','2023-02-25'),

('D010','SoftCopy','2023-02-28');


INSERT INTO APPLICATION_DETAIL
VALUES
('A001','2023-03-01','Degree','5 Years',4,'D001','J001'),

('A002','2023-02-13','O-Level','4 Years',5,'D002','J002'),

('A003','2023-03-01','A-Level','3 Years',3,'D003','J003'),

('A004','2023-02-24','Degree','4 Years',1,'D004','J004'),

('A005','2023-02-01','Degree','13 Years',2,'D005','J005'),

('A006','2023-02-12','Degree','1 Years',6,'D006','J006'),

('A007','2023-01-09','Degree','5 Years',5,'D007','J007'),

('A008','2023-02-01','Master','10 Years',3,'D008','J008'),

('A009','2023-02-17','Degree','8 Years',5,'D009','J009'),

('A010','2023-02-20','Phd','10 Years',3,'D010','J010');
```

```sql
INSERT INTO APPLICANT_CREDENTIAL
VALUES
('CR001',0,'Excellent'),

('CR002',0,'Good'),

('CR003',2,'Poor'),

('CR004',0,'Good'),

('CR005',1,'Dissatisfaction'),
('CR006',0,'Good'),
('CR007',0,'Excellent'),

('CR008',0,'Excellent'),

('CR009',0,'Excellent'),

('CR010',0,'Excellent');



INSERT INTO APPLICANT
VALUES
('A001','Eric','Louis','ericlouis90@gmail.com','012- 9339692','941112-10-5847','No.20 Mankato Mississippi96522 Selangor',29,'CR001'),
('A002','Adam','Zafar','adamzafar32@gmail.com','010- 5990205','970123-13-6083','No.17 Frederick Nebraska 20620Sarawak',26,'CR002'),
('A003','Carl','Fong','carlfong01@gmail.com','015- 8448683','010308-02-9421','No1. Street Roseville 11523Kedah',22,'CR003'),
('A004','Steve','Job','stevejob60@gmail.com','016- 7667173','901220-09-7147','No.69 San Antonio 47096Perlis',33,'CR004'),
('A005','Thomas','Musk','thomasmusk1884@gmail.com','013-9889696','840920-01-1421','No.67 Road Chelsea 67708 Johor',38,'CR005'),
('A006','Anakin','Yee','anakinyeeee@gmail.com','010- 5984453','980715-14-8573','9, Jalan Kaskas, Taman Cheras,52082 Cheras, Wilayah Persekutuan Kuala Lumpur, Malaysia',25,'CR006'),
('A007','Janice','Wong','Janiceee_77@gmail.com','019- 3774189','920422-07-5104','84, Lebuh Pasar, George Town, 10933 George Town, Pulau
```

Pinang',31,'CR007'),
('A008','Benedict','Cumberbatch','wizard123@gmail.com',' 016-8513312','850228-08-9655','40, Jalan Gunung Rapat, Taman Rapat Setia, 304 Ipoh, Perak',37,'CR008'),
('A009','Henry','Lau','henrylau1980@gmail.com','018- 3364758','891225-01-2167','44, Jln Medini Sentral 5, 79194 Nusajaya, Johor',34,'CR009'),
('A010','Allan','Skywalker','allanskywalker99@gmail.com',' 011-7741258','880103-10-0473','54, Jalan Subang, IndustriesPark, 4761 Subang Jaya, Selangor',35,'CR010');

INSERT INTO RESUME
VALUES
('AP001','A001','Equipped with finance knowledge'),
('AP002','A002','Ability in communication'), ('AP003','A003','Ability in solving problem'), ('AP004','A004','Ability in analyzing business data'),('AP005','A005','Ability in communication'),
('AP006','A006','Ability in leadership and time management'),
('AP007','A007','Equipped with finance knowledge'),('AP008','A008','Ability in communication'), ('AP009','A009','Ability in analyzing business data'),
('AP010','A010','Equipped with finance knowledge');

INSERT INTO SELECTION_PROCESS
VALUES
('SE001','2023-03-27','Senior Level','Amy','C001'),

('SE002','2023-03-04','Junior Level','Sean','C002'),

('SE003','2023-03-26','Junior Level','Allan','C003'),

('SE004','2023-03-16','Senior Level','John','C004'),

('SE005','2023-02-25','Higher Level','Anderson','C005'),

('SE006','2023-03-04','Fresh Graduate Level','Emily','C006'),
('SE007','2023-01-30','Senior Level','Stan','C007'),

('SE008','2023-02-24','Higher Level','Robert','C008'),

('SE009','2023-03-11','Senior Level','Nicole','C009'),

('SE010','2023-03-15','Higher Level','Jacky','C010');

INSERT INTO APPLICANT_EVALUATION
VALUES
('EV001','Good learning ability','A','A001'),

('EV002','Job hopper','C','A002'),

('EV003','Weak leadership','C','A003'),

('EV004','Poor communication skill','D','A004'),

('EV005','Strong leadership','S','A005'),

('EV006','Lack of experience','C','A006'),

('EV007','Creative thinking','A','A007'),

('EV008','Well experienced with professional knowledgebased','A','A008'),
('EV009','Good communication skill','B','A009'),('EV010','Good problem solving skill','S','A010');

INSERT INTO BRANCH VALUES
('SE001','EV001','Penang','PN1'),
('SE002','EV002','Sarawak','SRW3'),

('SE003','EV003','Perak','PK4'),

('SE004','EV004','Selangor','SE3'),

('SE005','EV005','Perlis','PS4'),

('SE006','EV006','Melaka','MK5'),

('SE007','EV007','Pahang','PH2'),

('SE008','EV008','Johor','JH1'),

('SE009','EV009','Sabah','SB2'),

('SE010','EV010','Selangor','SE2');

INSERT INTO APPLICATION_TEST
VALUES
('TT001','12:00','14:00','Perfomance-Based',95,'A001'),

('TT002','12:00','14:00','Perfomance-Based',70,'A002'),

('TT003','14:00','16:00','Communication',60,'A003'),

('TT004','12:00','14:00','Behavioural',68,'A004'),

('TT005','14:00','16:00','Communication',92,'A005'),

('TT006','12:00','14:00','Perfomance-Based',74,'A006'),

('TT007','14:00','16:00','Perfomance-Based',93,'A007'),

('TT008','14:00','16:00','Communication',90,'A008'),

('TT009','12:00','14:00','Bahavioural',88,'A009'),

('TT010','14:00','16:00','Communication',97,'A010');

INSERT INTO INTERVIEW
 VALUES
('SE001','TT001','10.00','SETA1'),
('SE002','TT002','10.00','SETA3'),

('SE003','TT003','12.00','SETB2'),

('SE004','TT004','10.00','SETC2'),

('SE005','TT005','12.00','SETB1'),

('SE006','TT006','10.00','SETA3'),

('SE007','TT007','12.00','SETA2'),

('SE008','TT008','12.00','SETB3'),

('SE009','TT009','10.00','SETC2'),

('SE010','TT010','12.00','SETB1');

INSERT INTO TEST_RESULT
VALUES
('R001','A','A','A','A','TT001'),
('R002','B','C','B','B','TT002'),

('R003','C','B','C','C','TT003'),

('R004','C','C','A','B','TT004'),

('R005','A','A','B','A','TT005'),

('R006','B','C','A','B','TT006'),

('R007','A','B','A','A','TT007'),

('R008','B','A','A','A','TT008'),

('R009','A','C','A','A','TT009'),

('R010','A','A','A','A','TT010');

INSERT INTO INTERVIEW_DECISION
VALUES
('DD001','Yes','Pass','SE001','R001'),
('DD002','No','Fail','SE002','R002'),

('DD003','No','Fail','SE003','R003'),

('DD004','No','Fail','SE004','R004'),

('DD005','Yes','Pass','SE005','R005'),

('DD006','No','Fail','SE006','R006'),

('DD007','Yes','Pass','SE007','R007'),

('DD008','Yes','Pass','SE008','R008'),

('DD009','Yes','Pass','SE009','R009'),

('DD010','Yes','Pass','SE010','R010');

```
mysql> SELECT * FROM COMPANY;
+------------+--------------+------------------------------------------------------------------------------+
| COMPANY_ID | COMPANY_NAME | COMPANY_ADDRESS                                                              |
+------------+--------------+------------------------------------------------------------------------------+
| C001       | Samsung      | 37A Jalan Bakawali 52 Taman Jaya, 81100 Johor Bahru Johor                    |
| C002       | Apple        | No. 43 Jln Lombong Emas 2 Taman Industri Ringan Mps 70200 Negeri Sembilan    |
| C003       | Xiaomi       | 1 Blok 488D One Stop Centre Jln Burma 10350 Penang                           |
| C004       | Banana       | G Wisma Mirama Jln Wisma Putra 50460 Wilayah Persekutuan                     |
| C005       | Pineapple    | 27 Jln Permatang 2 Taman Desa Jaya 81100 Johor                              |
| C006       | Tesla        | 7 Batu 2/3 Jalan Taman Perindustrian Tampoi Jaya Johor Bahru                 |
| C007       | Nike         | No. 55 Jln Telawi 3 Bangsar Baru Kuala Lumpur                               |
| C008       | Puma         | 2 2 Jln Tp 5 Taman Perindustrian Sime Uep Petaling Jaya                      |
| C009       | Adidas       | C 3A 23 4Th Floor Blok C Megan Phoenix Jalan 2/142A Km 10 Jalan Cheras Mal Kuala Lumpur |
| C010       | Huawei       | Bangunan Kerjasama Jln Dhoby Johor Bahru                                    |
+------------+--------------+------------------------------------------------------------------------------+
```

```
mysql> SELECT * FROM JOB;
+--------+----------------+---------------+-----------------+
| JOB_ID | DATE_PUBLISHED | NUM_VACANCIES | JOB_PLATFORM_ID |
+--------+----------------+---------------+-----------------+
| J001   | 2023-01-01     |             5 | PL001           |
| J002   | 2023-01-15     |             7 | PL002           |
| J003   | 2023-01-20     |             3 | PL003           |
| J004   | 2023-01-25     |             5 | PL004           |
| J005   | 2023-02-01     |             4 | PL005           |
| J006   | 2023-01-22     |             6 | PL006           |
| J007   | 2023-01-08     |             6 | PL007           |
| J008   | 2023-01-07     |             3 | PL008           |
| J009   | 2023-01-17     |             1 | PL009           |
| J010   | 2023-01-23     |             2 | PL010           |
+--------+----------------+---------------+-----------------+
```

```
mysql> SELECT * FROM JOB_POSITION;
+-----------------+------------------------------+----------------------------------------------------------------+--------+
| JOB_POSITION_ID | JOB_TITLE                    | JOB_PURPOSE                                                    | JOB_ID |
+-----------------+------------------------------+----------------------------------------------------------------+--------+
| JP001           | Accountant                   | Management and reporting of financial data                     | J001   |
| JP002           | Social media manager         | Identifying trends in customer interactions                    | J002   |
| JP003           | Technical support specialist | Providing technical support                                    | J003   |
| JP004           | Business analyst             | Defining business problems                                     | J004   |
| JP005           | Sales trainee                | Observing the sales process by assisting sales representatives | J005   |
| JP006           | Human resources manager      | Overseeing the administrative functions of an organization     | J006   |
| JP007           | Chief financial officer      | Racking cash flow and financial planning                       | J007   |
| JP008           | Product manager              | Identifying  customer need and  larger business objectives     | J008   |
| JP009           | Business analyst             | Defining business problems                                     | J009   |
| JP010           | Finance manager              | Budget planning                                                | J010   |
+-----------------+------------------------------+----------------------------------------------------------------+--------+
```

```
mysql> SELECT * FROM JOB_CATEGORY;
+-----------------+-------------------+--------+
| JOB_CATEGORY_ID | JOB_DEPARTMENT    | JOB_ID |
+-----------------+-------------------+--------+
| JC001           | Finance           | J001   |
| JC002           | Marketing         | J002   |
| JC003           | Customer service  | J003   |
| JC004           | Business          | J004   |
| JC005           | Sales             | J005   |
| JC006           | Human resource    | J006   |
| JC007           | Finance           | J007   |
| JC008           | Marketing         | J008   |
| JC009           | Business          | J009   |
| JC010           | Finance           | J010   |
+-----------------+-------------------+--------+
```

```
mysql> SELECT * FROM JOB_PLATFORM;
+----------------+--------------------+-------------------------------------------------------------------------+
| JOB_PLATFORM_ID | JOB_OPENING_MEDIUM | JOB_SEARCHING_LINK                                                     |
+----------------+--------------------+-------------------------------------------------------------------------+
| PL001          | Facebook           | https://www.jobstreet.com.my/en/job-search/department-jobs/             |
| PL002          | Youtube            | https://blog.hubspot.com/marketing/marketing-job-descriptions           |
| PL003          | Linkedin           | https://blog.hubspot.com/service/what-are-customer-service-jobs         |
| PL004          | Facebook           | https://www.indeed.com/career-advice/career-development/business-departments |
| PL005          | Instagram          | https://www.pipedrive.com/en/blog/types-of-sales-jobs                   |
| PL006          | Youtube            | https://www.theladders.com/                                             |
| PL007          | Linkedin           | https://angel.co/                                                       |
| PL008          | Instagram          | https://www.internships.com/                                            |
| PL009          | Linkedin           | https://www.linkedin.com/feed/                                          |
| PL010          | Facebook           | https://www.jobstreet.com.my/en/companies/610504-aeon-co-m              |
+----------------+--------------------+-------------------------------------------------------------------------+
```

```
mysql> SELECT * FROM APPLICANT_DOCUMENT;
+-------------+---------------+--------------------+
| DOCUMENT_ID | DOCUMENT_TYPE | LAST_UPDATE_STATUS |
+-------------+---------------+--------------------+
| D001        | SoftCopy      | 2023-03-08         |
| D002        | HardCopy      | 2023-02-20         |
| D003        | HardCopy      | 2023-03-08         |
| D004        | SoftCopy      | 2023-03-04         |
| D005        | SoftCopy      | 2023-02-08         |
| D006        | SoftCopy      | 2023-02-20         |
| D007        | SoftCopy      | 2023-01-16         |
| D008        | SoftCopy      | 2023-02-08         |
| D009        | SoftCopy      | 2023-02-25         |
| D010        | SoftCopy      | 2023-02-28         |
+-------------+---------------+--------------------+
```

```
mysql> SELECT * FROM APPLICATION_DETAIL;
+----------------+------------------+-----------------+------------+----------------------+-------------+--------+
| APPLICATION_ID | DATE_APPLICATION | EDUCATION_LEVEL | EXPERIENCE | SUBMISSION_FREQUENCY | DOCUMENT_ID | JOB_ID |
+----------------+------------------+-----------------+------------+----------------------+-------------+--------+
| AP001          | 2023-03-01       | Degree          | 5 Years    |                    4 | D001        | J001   |
| AP002          | 2023-02-13       | O-Level         | 4 Years    |                    5 | D002        | J002   |
| AP003          | 2023-03-01       | A-Level         | 3 Years    |                    3 | D003        | J003   |
| AP004          | 2023-02-24       | Degree          | 4 Years    |                    1 | D004        | J004   |
| AP005          | 2023-02-01       | Degree          | 13 Years   |                    2 | D005        | J005   |
| AP006          | 2023-02-12       | Degree          | 1 Years    |                    6 | D006        | J006   |
| AP007          | 2023-01-09       | Degree          | 5 Years    |                    5 | D007        | J007   |
| AP008          | 2023-02-01       | Master          | 10 Years   |                    3 | D008        | J008   |
| AP009          | 2023-02-17       | Degree          | 8 Years    |                    5 | D009        | J009   |
| AP010          | 2023-02-20       | Phd             | 10 Years   |                    3 | D010        | J010   |
+----------------+------------------+-----------------+------------+----------------------+-------------+--------+
```

```
mysql> SELECT * FROM APPLICANT_CREDENTIAL;
+---------------+--------------+-----------------+
| CREDENTIAL_ID | CRIME_RECORD | CREDIT_STATUS   |
+---------------+--------------+-----------------+
| CR001         |            0 | Excellent       |
| CR002         |            0 | Good            |
| CR003         |            2 | Poor            |
| CR004         |            0 | Good            |
| CR005         |            1 | Dissatisfaction |
| CR006         |            0 | Good            |
| CR007         |            0 | Excellent       |
| CR008         |            0 | Excellent       |
| CR009         |            0 | Excellent       |
| CR010         |            0 | Excellent       |
+---------------+--------------+-----------------+
```

```
mysql> SELECT * FROM APPLICANT;
+--------------+------------+-------------+----------------------------+-------------+----------------+------------------------------------------------------------------------------------------------+-----+---------------+
| APPLICANT_ID | FIRST_NAME | LAST_NAME   | EMAIL                      | PHONENUMBER | IC_NO          | HOME_ADDRESS                                                                                   | AGE | CREDENTIAL_ID |
+--------------+------------+-------------+----------------------------+-------------+----------------+------------------------------------------------------------------------------------------------+-----+---------------+
| A001         | Eric       | Louis       | ericlouis90@gmail.com      | 012-9339692 | 941112-10-5847 | No.20 Mankato Mississippi 96522 Selangor                                                       |  29 | CR001         |
| A002         | Adam       | Zafar       | adamzafar32@gmail.com      | 010-5990205 | 970123-13-6083 | No.17 Frederick Nebraska 20620 Sarawak                                                         |  26 | CR002         |
| A003         | Carl       | Fong        | carlfong01@gmail.com       | 015-8448683 | 010308-02-9421 | No1. Street Roseville 11523 Kedah                                                              |  22 | CR003         |
| A004         | Steve      | Job         | stevejob60@gmail.com       | 016-7667173 | 901220-09-7147 | No.69 San Antonio 47096 Perlis                                                                 |  33 | CR004         |
| A005         | Thomas     | Musk        | thomasmusk1884@gmail.com   | 013-9889696 | 840920-01-1421 | No.67 Road Chelsea 67708 Johor                                                                 |  38 | CR005         |
| A006         | Anakin     | Yee         | anakinyeeee@gmail.com      | 010-5984453 | 980715-14-8573 | 9,  Jalan Kaskas, Taman Cheras, 52082 Cheras, Wilayah Persekutuan Kuala Lumpur, Malaysia       |  25 | CR006         |
| A007         | Janice     | Wong        | Janiceee_77@gmail.com      | 019-3774189 | 920422-07-5104 | 84, Lebuh Pasar, George Town, 10933 George Town, Pulau Pinang                                  |  31 | CR007         |
| A008         | Benedict   | Cumberbatch | wizard123@gmail.com        | 016-8513312 | 850228-08-9655 | 40, Jalan Gunung Rapat, Taman Rapat Setia, 304 Ipoh, Perak                                     |  37 | CR008         |
| A009         | Henry      | Lau         | henrylau1980@gmail.com     | 018-3364758 | 891225-01-2167 | 44, Jln Medini Sentral 5, 79194 Nusajaya, Johor                                                |  34 | CR009         |
| A010         | Allan      | Skywalker   | allanskywalker99@gmail.com | 011-7741258 | 880103-10-0473 | 54, Jalan Subang, Industries Park, 4761 Subang Jaya, Selangor                                  |  35 | CR010         |
+--------------+------------+-------------+----------------------------+-------------+----------------+------------------------------------------------------------------------------------------------+-----+---------------+
```

```
mysql> SELECT * FROM RESUME;
+----------------+--------------+------------------------------------------+
| APPLICATION_ID | APPLICANT_ID | RESUME_PURPOSE                           |
+----------------+--------------+------------------------------------------+
| AP001          | A001         | Equipped with finance knowledge          |
| AP002          | A002         | Ability in communication                 |
| AP003          | A003         | Ability in solving problem               |
| AP004          | A004         | Ability in analyzing business data       |
| AP005          | A005         | Ability in communication                 |
| AP006          | A006         | Ability in leadership and time management |
| AP007          | A007         | Equipped with finance knowledge          |
| AP008          | A008         | Ability in communication                 |
| AP009          | A009         | Ability in analyzing business data       |
| AP010          | A010         | Equipped with finance knowledge          |
+----------------+--------------+------------------------------------------+

mysql> SELECT * FROM SELECTION_PROCESS;
+--------------+------------------+----------------------+---------------+------------+
| SELECTION_ID | APPOINTMENT_DATE | CANDIDATE_CATEGORY   | JOB_RECRUITER | COMPANY_ID |
+--------------+------------------+----------------------+---------------+------------+
| SE001        | 2023-03-27       | Senior Level         | Amy           | C001       |
| SE002        | 2023-03-04       | Junior Level         | Sean          | C002       |
| SE003        | 2023-03-26       | Junior Level         | Allan         | C003       |
| SE004        | 2023-03-16       | Senior Level         | John          | C004       |
| SE005        | 2023-02-25       | Higher Level         | Anderson      | C005       |
| SE006        | 2023-03-04       | Fresh Graduate Level | Emily         | C006       |
| SE007        | 2023-01-30       | Senior Level         | Stan          | C007       |
| SE008        | 2023-02-24       | Higher Level         | Robert        | C008       |
| SE009        | 2023-03-11       | Senior Level         | Nicole        | C009       |
| SE010        | 2023-03-15       | Higher Level         | Jacky         | C010       |
+--------------+------------------+----------------------+---------------+------------+

mysql> SELECT * FROM APPLICANT_EVALUATION;
+---------------+---------------------------------------------------+--------+----------------+
| EVALUATION_ID | OVERVIEW                                          | RATING | APPLICATION_ID |
+---------------+---------------------------------------------------+--------+----------------+
| EV001         | Good learning ability                             | A      | AP001          |
| EV002         | Job hopper                                        | C      | AP002          |
| EV003         | Weak leadership                                   | C      | AP003          |
| EV004         | Poor communication skill                          | D      | AP004          |
| EV005         | Strong leadership                                 | S      | AP005          |
| EV006         | Lack of experience                                | C      | AP006          |
| EV007         | Creative thinking                                 | A      | AP007          |
| EV008         | Well experienced with professional knowledge based | A    | AP008          |
| EV009         | Good communication skill                          | B      | AP009          |
| EV010         | Good problem solving skill                        | S      | AP010          |
+---------------+---------------------------------------------------+--------+----------------+
```

```
mysql> SELECT * FROM BRANCH;
+--------------+---------------+-----------+-----------------+
| SELECTION_ID | EVALUATION_ID | STATE     | MEETING_ROOM_NO |
+--------------+---------------+-----------+-----------------+
| SE001        | EV001         | Penang    | PN1             |
| SE002        | EV002         | Sarawak   | SRW3            |
| SE003        | EV003         | Perak     | PK4             |
| SE004        | EV004         | Selangor  | SE3             |
| SE005        | EV005         | Perlis    | PS4             |
| SE006        | EV006         | Melaka    | MK5             |
| SE007        | EV007         | Pahang    | PH2             |
| SE008        | EV008         | Johor     | JH1             |
| SE009        | EV009         | Sabah     | SB2             |
| SE010        | EV010         | Selangor  | SE2             |
+--------------+---------------+-----------+-----------------+
```

```
mysql> SELECT * FROM APPLICATION_TEST;
+---------+------------+----------+------------------+-------+----------------+
| TEST_ID | START_TIME | END_TIME | TEST_CATEGORY    | SCORE | APPLICATION_ID |
+---------+------------+----------+------------------+-------+----------------+
| TT001   | 12:00:00   | 14:00:00 | Perfomance-Based |    95 | AP001          |
| TT002   | 12:00:00   | 14:00:00 | Perfomance-Based |    70 | AP002          |
| TT003   | 14:00:00   | 16:00:00 | Communication    |    60 | AP003          |
| TT004   | 12:00:00   | 14:00:00 | Behavioural      |    68 | AP004          |
| TT005   | 14:00:00   | 16:00:00 | Communication    |    92 | AP005          |
| TT006   | 12:00:00   | 14:00:00 | Perfomance-Based |    74 | AP006          |
| TT007   | 14:00:00   | 16:00:00 | Perfomance-Based |    93 | AP007          |
| TT008   | 14:00:00   | 16:00:00 | Communication    |    90 | AP008          |
| TT009   | 12:00:00   | 14:00:00 | Bahavioural      |    88 | AP009          |
| TT010   | 14:00:00   | 16:00:00 | Communication    |    97 | AP010          |
+---------+------------+----------+------------------+-------+----------------+
```

```
mysql> SELECT * FROM INTERVIEW;
+--------------+---------+------------------+----------+
| SELECTION_ID | TEST_ID | APPOINTMENT_TIME | QUESTION |
+--------------+---------+------------------+----------+
| SE001        | TT001   | 00:00:10         | SETA1    |
| SE002        | TT002   | 00:00:10         | SETA3    |
| SE003        | TT003   | 00:00:12         | SETB2    |
| SE004        | TT004   | 00:00:10         | SETC2    |
| SE005        | TT005   | 00:00:12         | SETB1    |
| SE006        | TT006   | 00:00:10         | SETA3    |
| SE007        | TT007   | 00:00:12         | SETA2    |
| SE008        | TT008   | 00:00:12         | SETB3    |
| SE009        | TT009   | 00:00:10         | SETC2    |
| SE010        | TT010   | 00:00:12         | SETB1    |
+--------------+---------+------------------+----------+
```

```
mysql> SELECT * FROM TEST_RESULT;
+-----------+------------------+-----------------+----------------+----------------+---------+
| RESULT_ID | KNOWLEDGE_GRADES | PRACTICAL_GRADES | ATTITUDE_GRADES | OVERALL_GRADES | TEST_ID |
+-----------+------------------+-----------------+----------------+----------------+---------+
| R001      | A                | A               | A              | A              | TT001   |
| R002      | B                | C               | B              | B              | TT002   |
| R003      | C                | B               | C              | C              | TT003   |
| R004      | C                | C               | A              | B              | TT004   |
| R005      | A                | A               | B              | A              | TT005   |
| R006      | B                | C               | A              | B              | TT006   |
| R007      | A                | B               | A              | A              | TT007   |
| R008      | B                | A               | A              | A              | TT008   |
| R009      | A                | C               | A              | A              | TT009   |
| R010      | A                | A               | A              | A              | TT010   |
+-----------+------------------+-----------------+----------------+----------------+---------+
```

```
mysql> SELECT * FROM INTERVIEW_DECISION;
+-------------+----------------+-------------+--------------+-----------+
| DECISION_ID | HIRED_DECISION | PASS_STATUS | SELECTION_ID | RESULT_ID |
+-------------+----------------+-------------+--------------+-----------+
| DD001       | Yes            | Pass        | SE001        | R001      |
| DD002       | No             | Fail        | SE002        | R002      |
| DD003       | No             | Fail        | SE003        | R003      |
| DD004       | No             | Fail        | SE004        | R004      |
| DD005       | Yes            | Pass        | SE005        | R005      |
| DD006       | No             | Fail        | SE006        | R006      |
| DD007       | Yes            | Pass        | SE007        | R007      |
| DD008       | Yes            | Pass        | SE008        | R008      |
| DD009       | Yes            | Pass        | SE009        | R009      |
| DD010       | Yes            | Pass        | SE010        | R010      |
+-------------+----------------+-------------+--------------+-----------+
```

Other minimum 10 different SQL statements.

1. Display the overview of evaluation that obtaining rating A.

```
mysql>
mysql> select overview from applicant_evaluation
    -> where rating='A' ;
+------------------------------------------------------+
| overview                                             |
+------------------------------------------------------+
| Good learning ability                                |
| Creative thinking                                    |
| Well experienced with professional knowledge based   |
+------------------------------------------------------+
3 rows in set (0.01 sec)

mysql>
```

2. Display the test ID, test category and score for all start time at 14.00. Displays the result in ascending order.

```
mysql> select test_ID, test_category, score from application_test
    -> where start_time like '12%'
    -> order by score;
+---------+-----------------+-------+
| test_ID | test_category   | score |
+---------+-----------------+-------+
| TT004   | Behavioural     |    68 |
| TT002   | Perfomance-Based|    70 |
| TT006   | Perfomance-Based|    74 |
| TT009   | Bahavioural     |    88 |
| TT001   | Perfomance-Based|    95 |
+---------+-----------------+-------+
5 rows in set (0.01 sec)
```

3. The appointment time were delayed by 30minutes Display the updated table.

```
mysql> update application_test
    -> set start_time=addtime(start_time,'00:30:00');
Query OK, 10 rows affected (0.00 sec)
Rows matched: 10  Changed: 10  Warnings: 0

mysql> select * from application_test;
+---------+------------+----------+------------------+-------+----------------+
| TEST_ID | START_TIME | END_TIME | TEST_CATEGORY    | SCORE | APPLICATION_ID |
+---------+------------+----------+------------------+-------+----------------+
| TT001   | 12:30:00   | 14:00:00 | Perfomance-Based |    95 | AP001          |
| TT002   | 12:30:00   | 14:00:00 | Perfomance-Based |    70 | AP002          |
| TT003   | 14:30:00   | 16:00:00 | Communication    |    60 | AP003          |
| TT004   | 12:30:00   | 14:00:00 | Behavioural      |    68 | AP004          |
| TT005   | 14:30:00   | 16:00:00 | Communication    |    92 | AP005          |
| TT006   | 12:30:00   | 14:00:00 | Perfomance-Based |    74 | AP006          |
| TT007   | 14:30:00   | 16:00:00 | Perfomance-Based |    93 | AP007          |
| TT008   | 14:30:00   | 16:00:00 | Communication    |    90 | AP008          |
| TT009   | 12:30:00   | 14:00:00 | Bahavioural      |    88 | AP009          |
| TT010   | 14:30:00   | 16:00:00 | Communication    |    97 | AP010          |
+---------+------------+----------+------------------+-------+----------------+
10 rows in set (0.00 sec)
```

4. Count the total number of vacancies for each job department.

```
mysql> select c.job_department,sum(j.num_vacancies) as total_vacancies from Job_category c inner join Job j
    -> on j.job_id=c.job_id
    -> group by c.job_department;
+------------------+-----------------+
| job_department   | total_vacancies |
+------------------+-----------------+
| Finance          |              13 |
| Marketing        |              10 |
| Customer service |               3 |
| Business         |               6 |
| Sales            |               4 |
| Human resource   |               6 |
+------------------+-----------------+
6 rows in set (0.00 sec)
```

5. Count the total submission frequency for each education level .Display the education level with total submission frequency greater than ()

```
mysql> select education_level ,sum(submission_frequency) as total_submission from application_detail
    -> group by education_level
    -> having total_submission<15;
+-----------------+------------------+
| education_level | total_submission |
+-----------------+------------------+
| O-Level         |                5 |
| A-Level         |                3 |
| Master          |                3 |
| Phd             |                3 |
+-----------------+------------------+
4 rows in set (0.01 sec)
```

6. Display the decision id that pass the interview and obtaining overall grade A.

```
mysql> select d.decision_id, d.pass_status,r.overall_grades from interview_decision d inner join test_result r
    -> on r.result_id=d.result_id
    -> where overall_grades='A';
+-------------+-------------+----------------+
| decision_id | pass_status | overall_grades |
+-------------+-------------+----------------+
| DD001       | Pass        | A              |
| DD005       | Pass        | A              |
| DD007       | Pass        | A              |
| DD008       | Pass        | A              |
| DD009       | Pass        | A              |
| DD010       | Pass        | A              |
+-------------+-------------+----------------+
```

7. Generate a query to display the information of application detail arranged by a document type. The report should include the document type, application date, education level and experience.

```
mysql> SELECT D.DOCUMENT_TYPE, A.DATE_APPLICATION, A.EDUCATION_LEVEL, A.EXPERIENCE FROM APPLICANT_DOCUMENT D INNER JOIN APPLICATION_DETAIL A ON D.DOCUMENT_ID = A.DOCUMENT_ID
    -> ;
+---------------+------------------+-----------------+------------+
| DOCUMENT_TYPE | DATE_APPLICATION | EDUCATION_LEVEL | EXPERIENCE |
+---------------+------------------+-----------------+------------+
| SoftCopy      | 2023-03-01       | Degree          | 5 Years    |
| HardCopy      | 2023-02-13       | O-Level         | 4 Years    |
| HardCopy      | 2023-03-01       | A-Level         | 3 Years    |
| SoftCopy      | 2023-02-24       | Degree          | 4 Years    |
| SoftCopy      | 2023-02-01       | Degree          | 13 Years   |
| SoftCopy      | 2023-02-12       | Degree          | 1 Years    |
| SoftCopy      | 2023-01-09       | Degree          | 5 Years    |
| SoftCopy      | 2023-02-01       | Master          | 10 Years   |
| SoftCopy      | 2023-02-17       | Degree          | 8 Years    |
| SoftCopy      | 2023-02-20       | Phd             | 10 Years   |
+---------------+------------------+-----------------+------------+
10 rows in set (0.00 sec)
```

8. Display the information of test result except overall grades by the decision ID that got hired under performance-based test category.

```
mysql> select d.decision_id,r.knowledge_grades,r.practical_grades,r.attitude_grades,a.test_id
    -> from interview_decision d inner join test_result r
    -> on r.result_id=d.result_id
    -> inner join application_test a on a.test_id=r.test_id
    -> where d.hired_decision='Yes' and a.test_category='perfomance-based';
+-------------+-----------------+-----------------+-----------------+---------+
| decision_id | knowledge_grades | practical_grades | attitude_grades | test_id |
+-------------+-----------------+-----------------+-----------------+---------+
| DD001       | A               | A               | A               | TT001   |
| DD007       | A               | B               | A               | TT007   |
+-------------+-----------------+-----------------+-----------------+---------+
2 rows in set (0.00 sec)
```

9. Show that maximim, minimum and average experience for degree education level.

```
mysql> SELECT MAX(EXPERIENCE),MIN(EXPERIENCE),AVG(EXPERIENCE) FROM APPLICATION_DETAIL
    -> WHERE EDUCATION_LEVEL = 'DEGREE';
+-----------------+-----------------+-----------------+
| MAX(EXPERIENCE) | MIN(EXPERIENCE) | AVG(EXPERIENCE) |
+-----------------+-----------------+-----------------+
| 8 Years         | 1 Years         |               6 |
+-----------------+-----------------+-----------------+
1 row in set, 6 warnings (0.01 sec)
```

10. Delete the rows with job title business analyst. Display the result table.

```
mysql> select * from job_position;
+-----------------+----------------------------+----------------------------------------------------------+--------+
| JOB_POSITION_ID | JOB_TITLE                  | JOB_PURPOSE                                              | JOB_ID |
+-----------------+----------------------------+----------------------------------------------------------+--------+
| JP001           | Accountant                 | Management and reporting of financial data              | J001   |
| JP002           | Social media manager       | Identifying trends in customer interactions             | J002   |
| JP003           | Technical support specialist | Providing technical support                           | J003   |
| JP005           | Sales trainee              | Observing the sales process by assisting sales representatives | J005 |
| JP006           | Human resources manager    | Overseeing the administrative functions of an organization | J006 |
| JP007           | Chief financial officer    | Racking cash flow and financial planning                | J007   |
| JP008           | Product manager            | Identifying  customer need and  larger business objectives | J008 |
| JP010           | Finance manager            | Budget planning                                         | J010   |
+-----------------+----------------------------+----------------------------------------------------------+--------+
```

11. Select all the information from applicant between the age from 25 to 35.

```
mysql> Select*from applicant
    -> where age between 25 and 35;
+--------------+------------+-----------+----------------------------+-------------+-----------------+--------------------------------------------------------------------------------------------------------+-----+---------------+
| APPLICANT_ID | FIRST_NAME | LAST_NAME | EMAIL                      | PHONENUMBER | IC_NO           | HOME_ADDRESS                                                                                           | AGE | CREDENTIAL_ID |
+--------------+------------+-----------+----------------------------+-------------+-----------------+--------------------------------------------------------------------------------------------------------+-----+---------------+
| A001         | Eric       | Louis     | ericlouis90@gmail.com      | 012-9339692 | 941112-10-5847  | No.20 Mankato Mississippi 96522 Selangor                                                              | 29  | CR001         |
| A002         | Adam       | Zafar     | adamzafar32@gmail.com      | 010-5990205 | 970123-13-6083  | No.17 Frederick Nebraska 20620 Sarawak                                                                | 26  | CR002         |
| A004         | Steve      | Job       | stevejob60@gmail.com       | 016-7667173 | 901220-09-7147  | No.69 San Antonio 47096 Perlis                                                                        | 33  | CR004         |
| A006         | Anakin     | Yee       | anakinyeeee@gmail.com      | 010-5984453 | 980715-14-8573  | 9,  Jalan Kaskas, Taman Cheras, 52082 Cheras, Wilayah Persekutuan Kuala Lumpur, Malaysia               | 25  | CR006         |
| A007         | Janice     | Wong      | Janiceee_77@gmail.com      | 019-3774189 | 920422-07-5104  | 84, Lebuh Pasar, George Town, 10933 George Town, Pulau Pinang                                         | 31  | CR007         |
| A009         | Henry      | Lau       | henrylau1980@gmail.com     | 018-3364758 | 891225-01-2167  | 44, Jln Medini Sentral 5, 79194 Nusajaya, Johor                                                       | 34  | CR009         |
| A010         | Allan      | Skywalker | allanskywalker99@gmail.com | 011-7741258 | 880103-10-0473  | 54, Jalan Subang, Industries Park, 4761 Subang Jaya, Selangor                                         | 35  | CR010         |
+--------------+------------+-----------+----------------------------+-------------+-----------------+--------------------------------------------------------------------------------------------------------+-----+---------------+
7 rows in set (0.01 sec)
```

7.

First Normal Form (1NF)

JobRecruitmentSystem (Company_ID, Job_ID, Job_Position_ID, Job_Category_ID, Job_Platform_ID, Application_ID, Applicant_ID, Credential_ID, Document_ID, Selection_ID, Evaluation_ID, Decision_ID, Test_ID, Result_ID, Decision_ID, Company_Name, Company_Address ,date_published, num_vacancies,Job_Title, Job_Purpose, Job_Department, job_opening_medium, job_searching_link, date_application,Education_level, experience, submission_frequency, resume_purpose, First_name, Last_name, email,PhoneNumber, IC_No, Home_address, Age, Crime_Record, Credit_Status, Document_Type, last_update_status, Appointment_date, candidate_category, Job_Recruiter, State, MeetingRoomNo,Overview, Rating, start_time, end_time, score, Test_Category, Appointment_time, Question, Knowledge_Grades, Practical_Grades, Attitude_Grades, hired_decision, pass_status)

Partial Dependency

Company_ID →Company_Name, Company_Address
Job_ID→date_published, num_vacancies, Job_Position_ID, Job_Title, Job_Purpose, Job_Category_ID, Job_Department
Job_Platform_ID→job_opening_medim, job_searching_link
Application_ID→date_application, educational_level, experience, submission_frequency
Applicant_ID→First_name, Last_name, email, PhoneNumber, IC_No, Home_Address, Age, Credential_ID, Crime_Record, Credit_Status
Applicant_Document→Document_Type, last_update_status
Selection_ID→Appointment_date, candidate_category, Job_Recruiter
Evaluation_ID→Overview, Rating
Test_ID→start_time, end_time, Score, Test_category
Result_ID→Knowledge_Grades, Practical_Grades, Attitude_Grades
Decision_ID→hired_decision, pass_status

Full dependency

Applicant_ID, Application_ID→resume_purpose
Selection_ID, Evaluation_ID→State, MeetingRoomNo
Selection_ID, Test_ID→ Appointment_time, Question

Transitive Dependency

Job_Positon_ID→ Job_Title
(Job_ID(A) → Job_Position(B)
Job_Position(B) → Job_Title (C))

Job_Category_ID→ Job_Department
(Job_ID(A) → Job_Category_ID(B)
Job_Category_ID (B) → Job_Department(C))

Credential_ID→ Crime_Record
(Applicant_ID(A) → Credential_ID(B)
Credential_ID (B) → Crime_Record(C))

Second Normal Form (2NF)

Company(<u>Company_ID</u>, Company_Name, Company Address)

Job(<u>Job_ID</u>, date_published, num_vacancies, Job_Position_ID, Job_Title, Job_Purpose, Job_Category_ID, Job_Department)

Job_Platform(<u>Job_Platform_ID</u>, job_opening_medium, job_searching_link)

Application_Detail(<u>Application_ID</u>, date_application, education_level, experience, submission_frequency)

Applicant_Document(<u>Document_ID</u>, Document_Type, last_update,status)

Applicant (<u>Applicant_ID</u>, First_name, Last_name, email, PhoneNumber, IC_No, Home_address, Age, Credential_ID, Crime_Record, Credit_Status)

Resume(<u>Applicant_ID</u>, <u>Application_ID</u>, resume_purpose)

Selection_Process（<u>Selection_ID</u> ,Appointment_date, candidate_category, Job_Recruiter）

Applicant_Evaluation(<u>Evaluation_ID</u>, Overview, Rating)

Branch (<u>Selection_ID</u>, <u>Evaluation_ID</u>, State)

Application_Test(<u>Test_ID</u>, start_time, end_time, Score, Test_Category)

Interview （<u>Selection_ID</u>, <u>Test_ID</u>, Appointment_time, Question）

Test_Result （<u>Result_ID</u>, Knowledge_Grades, Practical_Grades, Attitude_grades）

Interview_Decision(<u>Decision_ID</u>, hired_decision, pass_status)

Third Normal Form (3NF)

Company(<u>Company_ID,</u> Company_Name, Company Address)

Job(<u>Job_ID</u>, date_published, num_vacancies)

Job_Position(<u>Job_Position_ID</u>, Job_Title, Job_Purpose)

Job_Category(<u>Job_Category_ID</u>, Job_Department)

Job_Platform(<u>Job_Platform_ID</u>, job_opening_medium, job_searching_link)

Application_Detail(<u>Application_ID</u>, date_application, education_level, experience, submission_frequency)

Applicant_Document(<u>Document_ID</u>, Document_Type, last_update,status)

Applicant (<u>Applicant_ID</u>, First_name, Last_name, email, PhoneNumber, IC_No, Home_address, Age)

Resume(<u>Applicant_ID</u>, <u>Application_ID</u>, resume_purpose)

Applicant_Credential(<u>Credential_ID</u>, Crime_Record, Credit_Status)

Selection_Process（<u>Selection_ID</u> ,Appointment_date, candidate_category, Job_Recruiter）

Applicant_Evaluation(<u>Evaluation_ID,</u> Overview, Rating)

Branch (<u>Selection_ID</u>, <u>Evaluation_ID</u>, State)

Application_Test(<u>Test_ID</u>, start_time, end_time, Score, Test_Category)

Interview （<u>Selection_ID</u>, <u>Test_ID</u>, Appointment_time, Question）

Test_Result （<u>Result_ID</u>, Knowledge_Grades, Practical_Grades, Attitude_grades）

Interview_Decision(<u>Decision_ID</u>, hired_decision, pass_status)

8. Data Dictionary

Company

No	Data	Description	Type	Length	PK/FK
1	Company_ID	Unique ID for each company	Varchar	10	PK
2	Company_Name	Name of company	Varchar	30	
3	Company_Address	Address of company	varchar	100	

Job

No	Data	Description	Type	Length	PK/FK
1	Job_ID	Unique identifier for each job	Varchar	10	PK
2	Date_published	Date published	Date	10	
3	Num_vacancies	Number of job vacancies available	Integer	1	
4	Job_Platform_ID	Job platform ID	Varchar	10	FK

Job_position

No	Data	Description	Type	Length	PK/FK
1	Job_Position_ID	Unique identifier for each job position	Varchar	10	PK
2	Job_Title	Title for the job	Varchar	100	
3	Job_Purpose	Purpose of the job	Varchar	100	
4	Job_ID	Job ID	Varchar	10	FK

Job_Category

No	Data	Description	Type	Length	PK/FK
1	Job_category_ID	Unique category ID for the job	Varchar	10	PK
2	Job_Department	Name of the job department	Varchar	100	
3	Job_ID	Job ID	Varchar	10	FK

Job_Platform

No	Data	Description	Type	Length	PK/FK
1	Job_Platform_ID	Unique platform ID for the job	Varchar	10	PK
2	Job_opening_medium	Job opening medium	Varchar	100	
3	Job_searching_link	Link for the Job searching	Varchar	100	

Applicant_Document

No	Data	Description	Type	Length	PK/FK
1	Document_ID	Unique document ID for each applicant	Varchar	10	PK
2	Document_Type	Type of applicant's document	Varchar	10	
3	Last_update_status	Last update status of applicant document	Date	10	

Application_Detail

No	Data	Description	Type	Length	PK/FK
1	Application_ID	Unique ID for each application detail	Varchar	10	PK
2	Date_application	Date of the job application	Date	10	
3	Education_level	Education level of the applicant	Varchar	10	
4	Experience	Working experience of the applicant	Varchar	10	

5	Submission_frequency	Frequency of the applicant's submission	Integer	1	
6	Document_ID	Document ID of applicant	Varchar	10	FK
7	Job_ID	Job ID	Varchar	10	FK

Applicant_Credential

No	Data	Description	Type	Length	PK/FK
1	Credential_ID	Unique credential id for each applicant	Varchar	10	PK
2	Crime_record	Number of crime record	Integer	1	
3	Credit_status	Credit status of applicant	Varchar	20	

Applicant

No	Data	Description	Type	Length	PK/FK
1	Applicant_ID	Unique id for each applicant	Varchar	10	PK
2	First_name	First name of applicant	Varchar	20	
3	Last_name	Last name of applicant	Varchar	20	
4	Email	Email of applicant	Varchar	50	
5	Phonenumber	Phone number of applicant	Varchar	20	
6	IC_no	Ic number of applicant	Varchar	30	
7	Home_address	Address for applicant's home	Varchar	100	
8	Age	Age of applicant	Integer	2	
9	Credential_ID	Credential ID	Varchar	10	FK

Resume

No	Data	Description	Type	Length	PK/FK
1	Application_ID	Unique id for each application	Varchar	10	PK,FK1
2	Applicat_ID	Unique id for each applicant	Varchar	10	PK,FK2
3	Resume_purpose	Purpose of the resume	Varchar	100	

Selection_Process

No	Data	Description	Type	Length	PK/FK
1	Selection_ID	Unique selection ID for selection process	Varchar	10	PK
2	Appointment_date	Appointment date for selection process	Date	10	
3	Candidate_category	Candidate's category for selection process	Varchar	30	
4	Job_recruiter	Name of job recruiter	Varchar	10	
5	Company_ID	Company ID	Varchar	10	FK

Applicant_Evaluation

No	Data	Description	Type	Length	PK/FK
1	Evaluation_ID	Unique evaluation ID for each applicant	Varchar	10	PK
2	Overview	Overview of applicant evaluation	Varchar	100	
3	Rating	Rating for applicant_evaluation	Varchar	5	
4	Application_ID	Application ID	Varchar	10	FK

Branch

No	Data	Description	Type	Length	PK/FK
1	Selection_ID	Unique selection ID for each branch	Varchar	10	PK,FK1
2	Evaluation_ID	Evaluation ID	Varchar	10	PK,FK2
3	State	State of branch	Varchar	20	
4	Meeting_room_no	Meeting room number	Varchar	10	

Application_Test

No	Data	Description	Type	Length	PK/FK
1	Test_ID	Unique test ID for application test	Varchar	10	PK
2	Start_time	Start time for the application test	Time	5	
3	End_time	End time for the application test	Time	5	
4	Test_Category	Category test for the application test	Varchar	20	
5	Score	Score for the application test	Integer	2	
6	Application_ID	Application ID for each application	Varchar	10	FK

Interview

No	Data	Description	Type	Length	PK/FK
1	Selection_ID	Unique selection id to interview	Varchar	10	PK,FK1
2	Test_ID	Test id for interview	Varchar	10	PK,FK2
3	Appointment_time	Appointment time for the interview	Time	5	
5	Question	Number of question asked by applicant	Varchar	100	

Test result

No	Data	Description	Type	Length	PK/FK
1	Result_ID	Unique result ID for each test result	Varchar	10	PK
2	Knowledge_grades	Knowledge grade of applicant	Varchar	10	
3	Practical_grades	Practical grade of applicant	Varchar	10	
4	Attitude_grades	Attitude grade of applicant	Varchar	10	
5	Overall_grades	Overall grades for applicant	Varchar	10	
6	Test_ID	Test ID	Varchar	10	FK

Interview decision

No	Data	Description	Type	Length	PK/FK
1	Decision_ID	Unique decision ID for interview decision	Varchar	10	PK
2	Hired_decision	Decision whether applicant get hired	Varchar	10	
3	Pass_status	Pass status from the interview	Varchar	10	
4	Selection_ID	Selection ID	Varchar	10	FK
5	Result_ID	Result ID	Varchar	10	FK

9. References
[1] Job Portal System ER Diagram,https://www.inettutor.com/diagrams/job-portal-system-er-diagram/, July 10 2020.

[2] What is online recruitment and what are its advantages, What is Online Recruitment andWhat are Its Advantages? - Fountain Blog

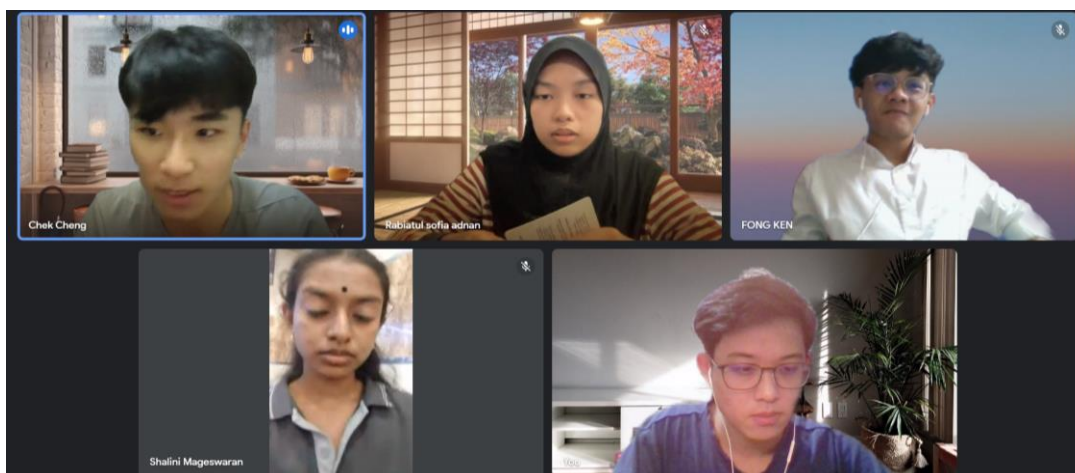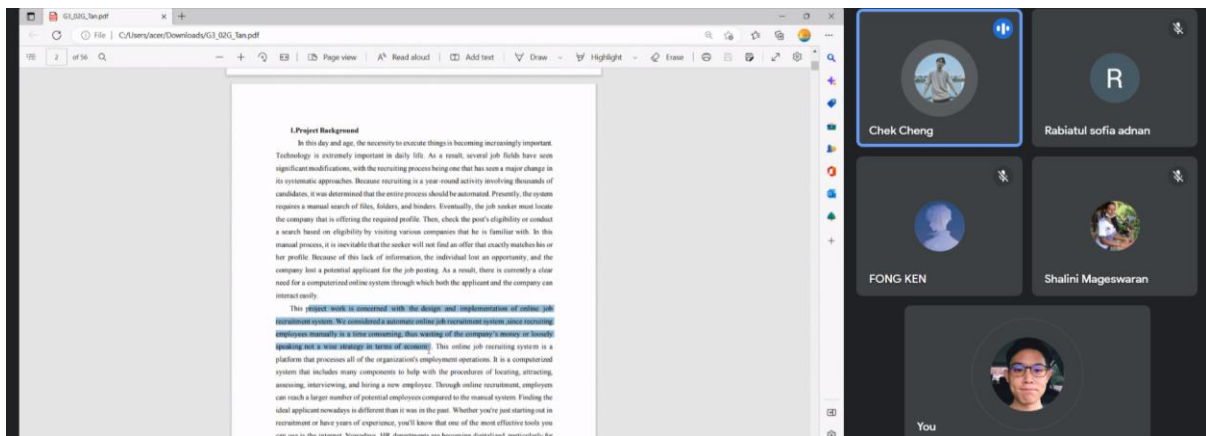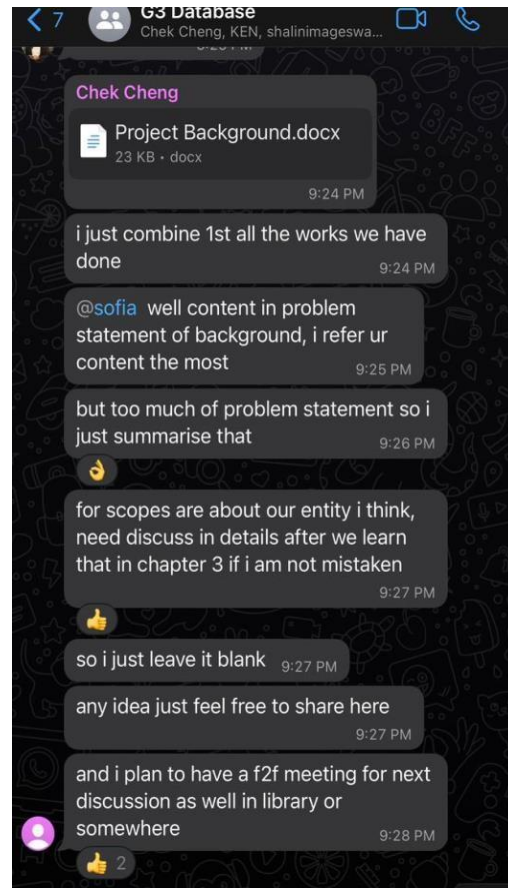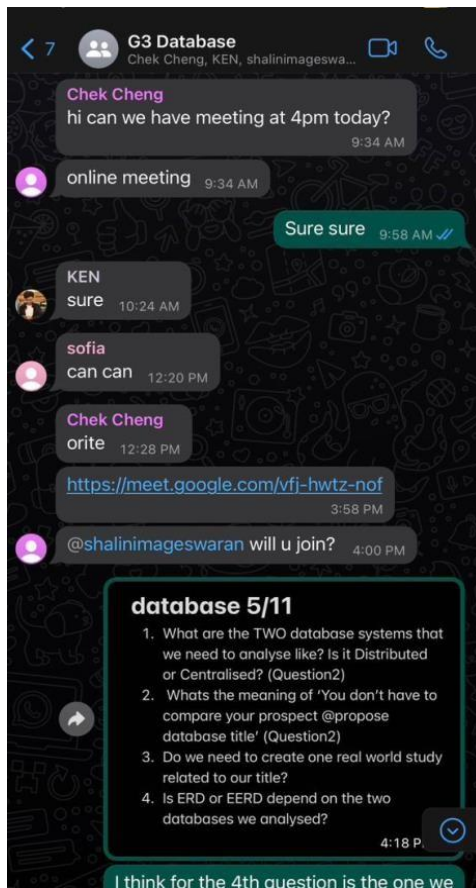[3] Roshni jain, example Online Recruitment System Project, (DOC) Online RecruitmentSystem PROJECT | Atatanalisa Kamugisha - Academia.edu.

10. Planning
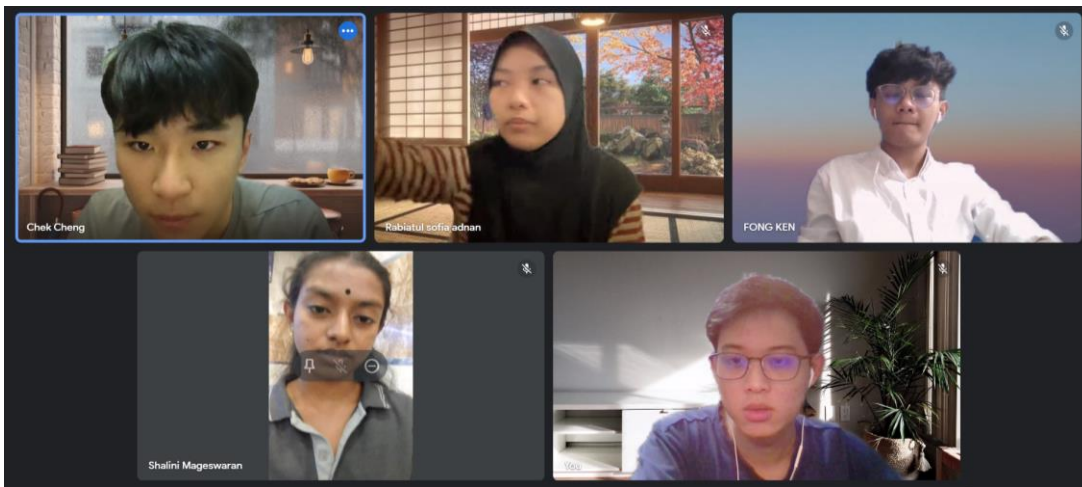
Jobscope	Members
Title discussion	All members
Project background, Objectives, Scope	RABIATUL SOFIA BT ADNAN
Manual process flowchart	KEN FONG KA KIN
Database system 1	RABIATUL SOFIA BT ADNAN
Database system 2	DAVID LAU KING LUEN, KEN FONG KA KIN
Business rules	DAVID LAU KING LUEN
ERD	ALL MEMBERS
EERD	ALL MEMBERS
Structured Query Language (SQL) (CREATE TABLES, ALTER, DROP, PRIMARY KEY, FOREIGN KEY, NOT NULL.)	ALL MEMBERS
Structured Query Language (SQL) (INSERT statement and other minimum 10 different SQL statements.)	ALL MEMBERS
Normalization	TAN CHEK CHENG
Data Dictionary (DD)	RABIATUL SOFIA BT ADNAN
References	SHALINI MAGESWARAN
Planning	DAVID LAU KING LUEN, KEN FONG KA KIN
Meeting report contents	SHALINI MAGESWARAN

Group Meeting Report [NO]1

Date: 5th November 2022,	Venue: Online	Attendees: 1. TAN CHEK CHENG 2. KEN FONG KA KIN 3. DAVID LAU KING LUEN 4. SHALINI MAGESWARAN 5. RABIATUL SOFIA BT ADNAN
Time: 7pm-10pm	SCL Leader: TAN CHEK CHENG	

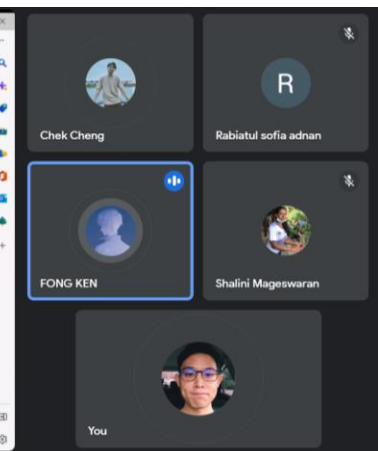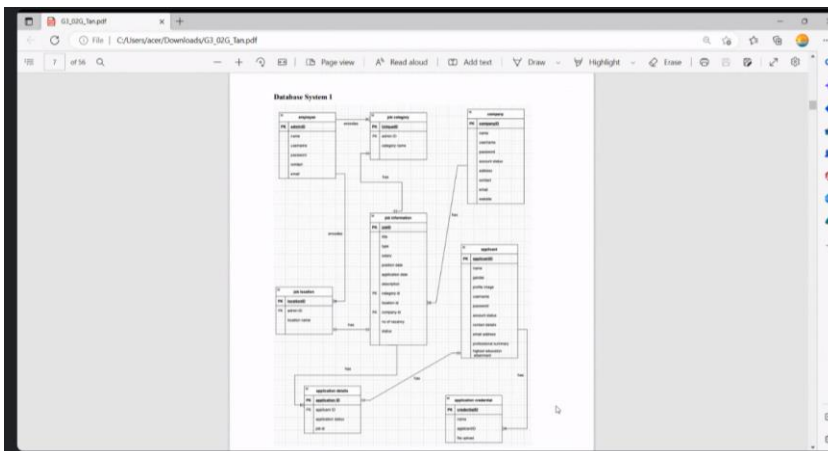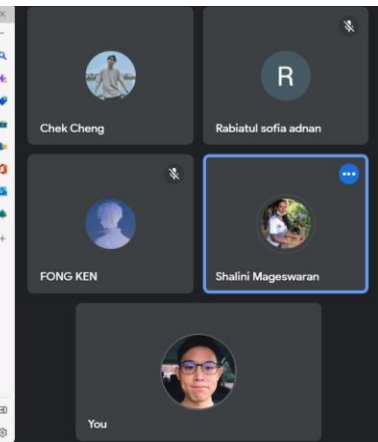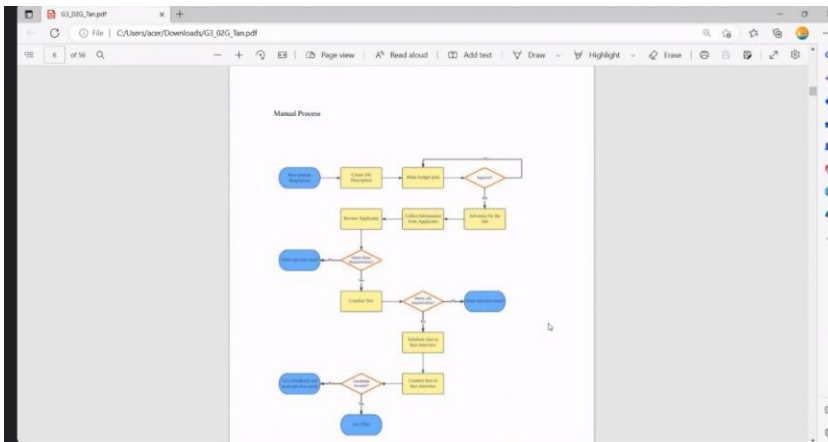| No	Task List	Progress Task/ Table Involves/	PIC
1	Project background discussion	-All the members did some research before start doing the mini project	All members
2	Project background	-Brainstorming about the project background	1) RABIATUL SOFIA BT ADNAN 2) TAN CHEK CHENG
3	Objectives	-Identifying the objectives of our project	1) SHALINI MAGESWARAN 2) RABIATUL SOFIA BT ADNAN
4	Scopes	-Identifying the scopes of our project	1) TAN CHEK CHENG 2) DAVID LAU KING LUEN 3) KEN FONG KA KIN
5	Checking of project background, objectives and scopes	-Do the final checking of project background, objectives and scopes	1) TAN CHEK CHENG

Evidence of meeting

	Group Meeting Report [NO] 2		

Date: 13th December 2022	Venue: Online	Attendees: 1. TAN CHEK CHENG 2. KEN FONG KA KIN 3. DAVID LAU KING LUEN 4. SHALINI MAGESWARAN 5. RABIATUL SOFIA BT ADNAN	
Time: 7pm-10pm	SCL Leader: TAN CHEK CHENG		

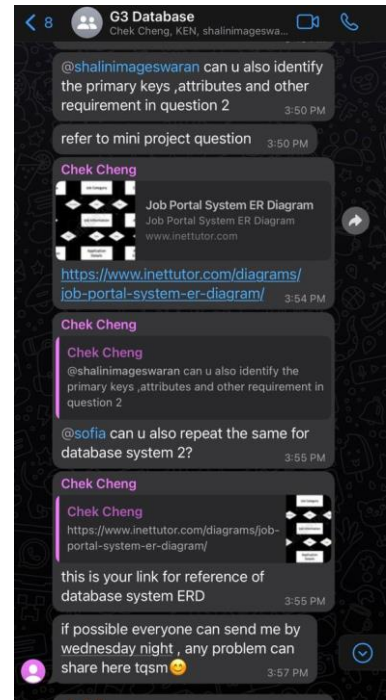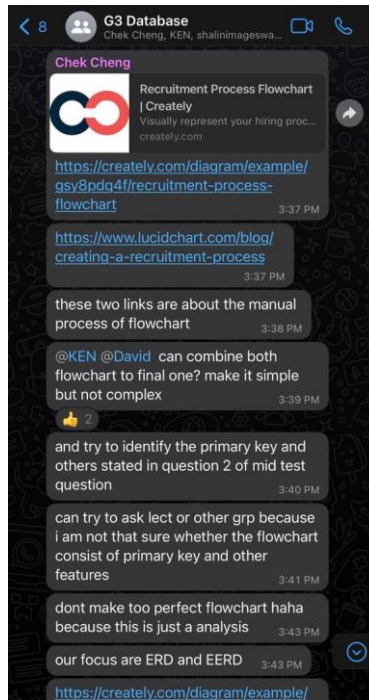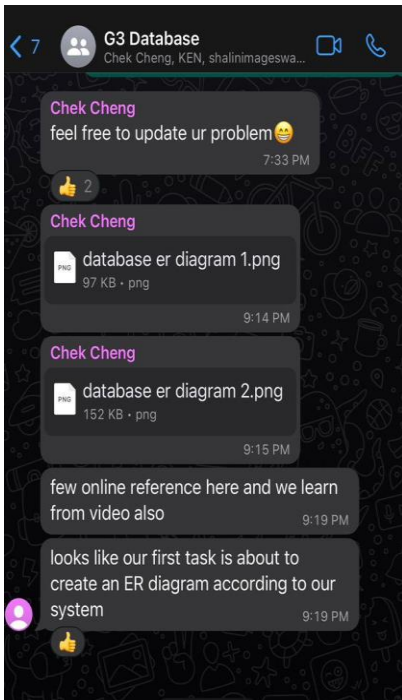| No	Task List	Progress Task/ Table Involves/	PIC
1	Discussion of flowchart, ERD and EERD	-Investigate the manual process and analyze two database systems that relevant to our title	All members
2	Flowchart	-Draw flowchart on manual process	1) KEN FONG KA KIN
3	ERD and EERD based on database system 1	-Create ERD and EERD based on database system 1 -Write down their entities and attributes	1) RABIATUL SOFIA BT ADNAN 2) SHALINI MAGESWARAN
4	ERD and EERD based on database system 2	-Create ERD and EERD based on database system 2 -Write down their entities and attributes	1) DAVID LAU KING LUEN 2) KEN FONG KA KIN
5	Combine ERD and EERD	-Check ERD and EERD based on database system 1 and database system 2 and combine them together	1) TAN CHEK CHENG

Evidence of meeting

Group Meeting Report [NO] 3

Date: 22th December 2022	Venue: Online	Attendees: 1. TAN CHEK CHENG 2. KEN FONG KA KIN 3. DAVID LAU KING LUEN 4. SHALINI MAGESWARAN 5. RABIATUL SOFIA BT ADNAN
Time: 7pm-10pm	SCL Leader: TAN CHEK CHENG	

No	Task List	Progress Task/ Table Involves/	PIC
1	Business rules	-Write business rules based on the ERD and EERD drawn	1) DAVID LAU KING LUEN
2	Prepare data value	-Prepare data values using Excel	All the members.
3	Create Structured Query Language(SQL)	-Create SQL statements based on the EERD	All the members
4	Insert Structured Query Language(SQL)	-Insert the data values into the tables in SQL	All the members
5	Other function of Structured Query Language(SQL)	-Create other 10 different SQL statements	1) TAN CHEK CHENG 2) KEN FONG KA KIN

Evidence of meeting

Group Meeting Report [NO] 4		

Date: 5/1/2023	Venue: Online	Attendees: 1. TAN CHEK CHENG 2. KEN FONG KA KIN 3. DAVID LAU KING LUEN 4. SHALINI MAGESWARAN 5. RABIATUL SOFIA BT ADNAN
Time: 12pm-5pm	SCL Leader: TAN CHEK CHENG	

No	Task List	Progress Task/ Table Involves/	PIC
1	Normalization	-Study normalization and create 1NF, 2NF and 3NF	All the members
2	Data dictionary	-Identify all the data dictionary	1) RABIATUL SOFIA BT ADNAN
3	References	-Find and combine the references of our project	1) SHALINI MAGESWARAN
4	Check and combine all the files	-Check and summarize our mini project	1) TAN CHEK CHENG 2) KEN FONG KA KIN 3) DAVID LAU KING LUEN
5	Submit final report	-Submit our mini project on UDAS	1) TAN CHEK CHENG

Screenshot 1

- Transitive Dependency

There is no transitive dependency in this 2NF.

- Candidate Key

Selection_ID,State→Appointment,candidate_category,
job_recruiter,MeetingRoomNo
Evaluation_ID,MeetingRoomNo→Overview, Rating ,State

- Full Functional Dependency

Selection_ID→Appointment_date
Selection_ID→candidate_category
Evaluation_ID→Overview
Evaluation_ID→Rating

Normalization 3

- Primary Key

Applicant_ID,Application_ID→resume_purpose

- Partial Dependency

Screenshot 2

Second Normal Form
Normalization 1

- Primary Key

Selection_ID,Test_ID→Appointment_time,Question

- Partial Dependency

Selection_ID→Appointment_date, candidate_category, job_recruiter
Application_Test→start_time, end_time, Test_category, Score

- Transitive Dependency

Test_Category→Fluency, Voice_Tone, Eye_contact, Confidence,
Moral_evaluation_report, politeness, body_language,posture, experience,
proactive,responsibility, cooperative.

- Candidate Key

Selection_ID,Appointment_ID→Appointment,candidate_category,
job_recruiter,Question
Test_ID,Question→start_time,end_time,Test_Category,Score,Appointment_time

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Screenshot 3

No	Data	Description	Type	Length	PK/FK
5	Phonenumber	Phone number of applicant	Varchar	20	
6	IC_no	Ic number of applicant	Varchar	30	
7	Home_address	Address for applicant's home	Varchar	100	
8	Age	Age of applicant	Integer	2	
9	Credential_ID	Credential ID	Varchar	10	FK

Resume

No	Data	Description	Type	Length	PK/FK
1	Application_ID	Unique id for each application	Varchar	10	PK,FK1
2	Applicat_ID	Unique id for each applicant	Varchar	10	PK,FK2
3	Resume_purpose	Purpose of the resume	Varchar	100	

Selection_Process

No	Data	Description	Type	Length	PK/FK
1	Selection_ID	Unique selection ID for selection process	Varchar	10	PK
2	Appointment_date	Appointment date for selection process	Date	10	
3	Candidate_category	Candidate's category for selection process	Varchar	30	
4	Job_recruiter	Name of job recruiter	Varchar	10	
5	Company_ID	Company ID	Varchar	10	FK

Applicant_Evaluation

No	Data	Description	Type	Length	PK/FK
1	Evaluation_ID	Unique evaluation ID for each applicant	Varchar	10	PK
2	Overview	Overview of applicant evaluation	Varchar	100	
3	Rating	Rating for applicant_evaluation	Varchar	5	
4	Application_ID	Application ID	Varchar	10	FK

Branch

Screenshot 4

No	Data	Description	Type	Length	PK/FK
1	Selection_ID	Unique selection ID for each branch	Varchar	10	PK,FK1
2	Evaluation_ID	Evaluation ID	Varchar	10	PK,FK2
3	State	State of branch	Varchar	20	
4	Meeting_room_no	Meeting room number	Varchar	10	

Application_Test

No	Data	Description	Type	Length	PK/FK
1	Test_ID	Unique test ID for application test	Varchar	10	PK
2	Start_time	Start time for the application test	Time	5	
3	End_time	End time for the application test	Time	5	
4	Test_Category	Category test for the application test	Varchar	20	
5	Score	Score for the application test	Integer	2	
6	Application_ID	Application ID for each application	Varchar	10	FK

Interview

No	Data	Description	Type	Length	PK/FK
1	Selection_ID	Unique selection id to interview	Varchar	10	PK,FK1
2	Test_ID	Test id for interview	Varchar	10	PK,FK2
3	Appointment_time	Appointment time for the interview	Time	5	
5	Question	Number of question asked by applicant	Varchar	100	

Test result

No	Data	Description	Type	Length	PK/FK
1	Result_ID	Unique result ID for each test result	Varchar	10	PK
2	Knowledge_grades	Knowledge grade of applicant	Varchar	10	
3	Practical_grades	Practical grade of applicant	Varchar	10	
4	Attitude_grades	Attitude grade of applicant	Varchar	10	
5	Overall_grades	Overall grades for applicant	Varchar	10	
6	Test_ID	Test ID	Varchar	10	FK