

```
DROP TABLE Department CASCADE CONSTRAINTS;
DROP TABLE JB_User CASCADE CONSTRAINTS;
DROP TABLE Qualifications;
DROP TABLE Accounts;
DROP TABLE Jobs;
DROP TABLE Employee;
DROP TABLE HR;
```

```
CREATE TABLE Department(
    depart_id VARCHAR2(10 CHAR),
    depart_manager VARCHAR2(25 CHAR) NOT NULL,
    depart_name VARCHAR2(25 CHAR),
    num_employees NUMBER DEFAULT 0,
    CONSTRAINT depart_pk PRIMARY KEY(depart_id)
);
```

```
INSERT INTO Department
VALUES ('Admin1','Ashwin','Administration',10);
```

```
INSERT INTO Department
VALUES ('Admin2','Edmond','Help Desk',30);
```

```
INSERT INTO Department
VALUES ('Admin3','Brian','Human Resources',15);
```

```
SELECT * FROM Department;
```

```
CREATE TABLE JB_User(
    user_id VARCHAR2(25 CHAR),
    user_pass VARCHAR2(25 CHAR) NOT NULL,
    CONSTRAINT users_pk PRIMARY KEY(user_id)--Same as PRIMARY KEY
);
```

```
INSERT INTO JB_User
VALUES ('User1','Ashwin123');
```

```
INSERT INTO JB_User
VALUES ('User2','Edmond123');
```

```
INSERT INTO JB_User
VALUES ('User3','Brian123');
```

```
SELECT user_id, 'This users password is :', user_pass FROM JB_User;
```

```

CREATE TABLE Qualifications(
    qualification_id VARCHAR2(10 CHAR),
    user_degree VARCHAR2(50 CHAR) DEFAULT 'Undergraduate',
    resumes VARCHAR2(25 CHAR) NOT NULL,
    years_experience NUMBER CHECK (years_experience BETWEEN 0 AND 30),
    coverLetter VARCHAR2(1000 CHAR) UNIQUE,
    license VARCHAR2(25 CHAR),
    CONSTRAINT qualification_pk PRIMARY KEY (qualification_id),--Primary ID
    CONSTRAINT Qualifications_JBUser_fk FOREIGN KEY (resumes) REFERENCES
JB_User(user_id) --Foreign ID
    ON DELETE CASCADE
);

INSERT INTO Qualifications
VALUES ('Serial1','Bachelors','User1',6,'CoverTitle','G');

INSERT INTO Qualifications
VALUES ('Serial2','Masters','User2',14,'CoverTitle2','Smart Serve');

INSERT INTO Qualifications
VALUES ('Serial3','Undergraduate','User3',2,'CoverTitle3','Pilot License');

SELECT * FROM Qualifications WHERE years_experience >= 5;

```

```

CREATE TABLE Accounts(
    account_userID VARCHAR2 (25 CHAR),
    subscription VARCHAR2(25 CHAR) DEFAULT 'Free',
    age NUMBER,
    address VARCHAR2(25 CHAR),
    phone NUMBER UNIQUE,
    account_name VARCHAR2(25 CHAR),
    CONSTRAINT useraccountID_pk PRIMARY KEY (account_userID), --Primary Key
    CONSTRAINT account_JBUser_fk FOREIGN KEY (account_name) REFERENCES
JB_User(user_id) -- Foreign Key
);

INSERT INTO Accounts
VALUES ('ID#1','Premium',16,'7 Eglinton',6478720202,'User1');

INSERT INTO Accounts
VALUES ('ID#2','Free',45,'18 Houseview',6478724302,'User2');

INSERT INTO Accounts
VALUES ('ID#3','Student',20,'6 FreeMarket',6474520201,'User3');

```

```
SELECT * FROM Accounts WHERE age >= 1 ORDER BY age DESC;
```

```
CREATE TABLE Jobs(  
    job_id VARCHAR2 (20 CHAR),  
    work_period NUMBER,  
    company VARCHAR2(25 CHAR),  
    salary NUMBER,  
    job_title VARCHAR2(25 CHAR),  
    job_location VARCHAR2(25 CHAR),  
    job_type VARCHAR2(25 CHAR),  
    CONSTRAINT jobs_pk PRIMARY KEY (job_id)--primary key  
);
```

```
INSERT INTO Jobs  
VALUES ('Job1', 5 , 'Samsung' , 500 , 'Software Developer' , 'Toronto' , 'Remote');
```

```
INSERT INTO Jobs  
VALUES ('Job2', 18, 'Apple', 1800, 'Janitor', 'San Jose', 'In-person');
```

```
INSERT INTO Jobs  
VALUES ('Job3', 2, 'Facebook', 900, 'Tech Support', 'Toronto', 'Temporary');
```

```
SELECT company, job_location FROM Jobs ORDER BY company DESC, job_location  
ASC;
```

```
CREATE TABLE Employee(  
    employee_id VARCHAR2 (25 CHAR),  
    start_date VARCHAR2(25 CHAR),  
    employee_name VARCHAR2(25 CHAR),  
    employee_title VARCHAR2(25 CHAR),  
    CONSTRAINT employee_pk PRIMARY KEY (employee_id)  
);
```

```
INSERT INTO Employee  
VALUES ('Employee1', 'May 21', 'Sam', 'Apprentice');
```

```
INSERT INTO Employee  
VALUES ('Employee2', 'July 19', 'Kevin', 'Full-time');
```

```
INSERT INTO Employee
VALUES ('Employee3','September 1', 'Steve', 'Full-time');
```

```
SELECT employee_title AS Worker_Type
FROM Employee ORDER BY employee_title;
```

```
CREATE TABLE HR(
    HR_id VARCHAR (10 CHAR),
    company_id VARCHAR2(10 CHAR),
    results VARCHAR2(50 CHAR),
    interview VARCHAR2(100 CHAR),
    CONSTRAINT HR_pk PRIMARY KEY (HR_id), --Primary Key
    CONSTRAINT HR_JBUser_fk FOREIGN KEY (company_id) REFERENCES
JB_User(user_id) --Foreign Key
);
```

```
INSERT INTO HR
VALUES ('HR#1','User1','Rejected','Complete');
```

```
INSERT INTO HR
VALUES ('HR#2','User2','Ongoing','Incomplete');
```

```
INSERT INTO HR
VALUES ('HR#3','User3','Hired','Complete');
```

```
SELECT HR_id, interview FROM HR WHERE NOT (interview = 'Incomplete');
```

```
DROP VIEW potential_cand;
CREATE VIEW potential_cand (cand_UserId, cand_UserName, cand_UserExp) AS
    SELECT user_id, account_name, years_experience
    FROM Qualifications, Accounts, JB_User
    WHERE (user_degree = 'Undergraduate' AND years_experience >= 2);
```

```
DROP VIEW potential_prom;
CREATE VIEW potential_prom (prom_EmpId, prom_EmpName)AS
    (SELECT employee_id, employee_name
    FROM Employee
    WHERE employee_title = 'Manager')
    WITH READ ONLY;
```

```
DROP VIEW potential_job;
```

```
CREATE VIEW potential_job (job_ptitle, job_pid)AS
  (SELECT job_title, job_id
   FROM Jobs
   WHERE job_location = 'Canada');
```

```
UPDATE Jobs
SET salary = 10000;
```

```
SELECT 'Average_age_is', AVG(age)
FROM Accounts;
```

```
SELECT 'MIN_age_is', MIN(age)
FROM Accounts;
```

```
SELECT 'MAX_age_is', MAX(age)
FROM Accounts;
```

```
SELECT 'STDDEV_age_is', STDDEV(age)
FROM Accounts;
```

```
SELECT job_location, COUNT(job_id) AS Number_located
FROM Jobs
GROUP BY job_location;
```

```
SELECT user_id, account_name, years_experience
FROM Qualifications, Accounts, JB_User
WHERE (user_degree = 'Undergraduate' AND years_experience BETWEEN 2 AND 6);
```

```
SELECT user_id, account_name, user_degree, job_title
FROM JB_User u, Jobs j, Qualifications q, Accounts a
WHERE (j.job_title = 'Software Developer' AND q.user_degree = 'Bachelors');
```

```
SELECT user_id, account_name, age, license
FROM JB_User u, Qualifications q, Accounts a
WHERE (a.age <= 18 AND q.license >= 'G');
```

```
SELECT account_name, user_degree, job_type, address
FROM JB_User u, Jobs j, Qualifications q, Accounts a
WHERE (j.job_type = 'Intern' AND q.user_degree = 'Undergraduate');
```

View POTENTIAL\_CAND dropped.

View POTENTIAL\_CAND created.

View POTENTIAL\_PROM dropped.

View POTENTIAL\_PROM created.

View POTENTIAL\_JOB dropped.

View POTENTIAL\_JOB created.

3 rows updated.

'AVERAGE_AGE_I	AVG(AGE)
Average_age_is	27

'MIN_AGE_I	MIN(AGE)
MIN_age_is	16

'MAX_AGE_I	MAX(AGE)
MAX_age_is	45

'STDDEV_AGE_I	STDDEV(AGE)
STDDEV_age_is	15.7162336

JOB_LOCATION	NUMBER_LOCATED
Toronto	2
San Jose	1

USER_ID	ACCOUNT_NAME	YEARS_EXPERIENCE
User1	User1	6

USER_ID	ACCOUNT_NAME	USER_DEGREE	JOB_TITLE
User1	User1	Bachelors	Software Developer

USER_ID	ACCOUNT_NAME	AGE	LICENSE
User1	User1	16	G

no rows selected